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Education & Selective Training

Texas A&M School of Engineering Medicine (EnMed) **Houston, TX**
M.D./M.Eng. Candidate, Class of 2029 *2025 - 2029*

- Dual-degree physician-engineer curriculum integrating medical training with engineering design, computational methods, device development, and clinical translation in the Texas Medical Center in partnership with Houston Methodist.
- Research Chair, Class of 2029; active in surgical innovation, clinical AI, medical-device design, and translational research.

Stanford University School of Medicine **Stanford, CA**
AI in Healthcare Specialization *2024 - 2025*

- Completed focused training in clinical data, machine learning, AI ethics, and implementation of artificial intelligence in real-world healthcare settings.

The Residency / BioPunk **San Francisco, CA**
Delta II Fellow; BioPunk/The Residency pathway (deferred) *2025 - 2027*

- Selected from **1,500+ applicants** for Delta Cohort II, an intensive 21-day San Francisco founder program backed by Sam Altman and a16z, with a focus on building at the intersection of AI and healthcare.
- Deferred BioPunk/The Residency in-house biotech accelerator pathway with cross-shadowing exposure at Stanford Medicine and a16z.

Texas A&M University **College Station, TX**
B.S. Computer Science, Pre-Medicine Track, Latin Honors *2021 - 2025*

- Full-ride scholarship package; Craig & Galen Brown Foundation Scholar; National Merit Scholar; President's Endowed Scholarship; University Honors; Engineering Honors; Dean's List; E2EnMed pathway.

Honors, Awards & Scholarships

Research, Innovation & Competitive Recognition

EnMed Capstone Innovator Award: Student Principal Investigator; **$24,000** for "AI-Driven Platform for Automated Aortic Sizing and Endovascular Procedure Planning." 2026

Lawrence J. Del Papa Distinguished Chair Award in Neurodegenerative Disease: Houston Methodist research recognition for work involving AI/LLM analysis and individualized neuromodulation. 2026

1st Place, Texas Society of Neuroradiology: VascuVision, predictive spatial-temporal AI for endovascular safety. 2026

VentureWell Pioneer Grant / E-Team Stage I: Ditto; **$5,000** award and Boston Pioneer workshop at Cooley LLP. 2026

Meloy Innovators Award: **$2,500** to support JAIM visibility and Ai4 participation. 2026

NASA L'SPACE NPWEE Selection: Proposal Writing and Evaluation Experience focused on mission-concept risk, cost, and proposal review. 2026

Best Poster (MD), Texas A&M Health Science Center Institute of Pharmacology & Neurotherapeutics Research Symposium. 2025

Delta II Fellow, The Residency: selected from 1,500+ applicants for the San Francisco founder cohort. 2025

VentureWell Impact-Launch: Uterostim; **1st Place, People's Choice, and Largest Humanitarian Impact** for a non-invasive postpartum-hemorrhage concept. 2024

TAMUhack / PIMCO Challenge, 1st Place: Financial Planner Pro; competition included 800+ participants and 190+ projects. 2024

Meloy Innovators Award: **$2,500** for AnalyticAI development and Ai4 participation. 2024

Raymond Ideas Challenge: Finalist and Honorable Mention for AnalyticAI; pitched to physicians, business leaders, investors, and industry judges. 2024

Recognized Startup, Ai4 Conference: AnalyticAI selected for the Ai4 startup program; conference pass sponsorship valued at **$2,895**. 2024

NSF I-Corps Site Fellow, Southwest Hub: customer discovery and commercialization training for an ML-powered healthcare venture; **$6,500** in NSF customer-discovery support. 2024

Academic Scholarships & Distinctions

Patricia A. Ward Memorial Scholarship, Texas A&M School of Engineering Medicine: merit-based Academic Excellence award recognizing achievement in the EnMed program. 2026

Meloy Innovator Endowed Scholarship, Texas A&M College of Engineering: donor-funded scholarship supporting engineering innovation and entrepreneurship. 2026

Patricia A. Ward College of Medicine Scholarship, Texas A&M College of Medicine: merit-based recognition for academic excellence, medical advocacy, and student leadership.

Michael '78 & Dianne '79 Pfister Scholarship, Department of Computer Science & Engineering: **$1,000**. 2024 - 2025

BP Scholarship in CSCE, Department of Computer Science & Engineering: **$1,000**. 2023 - 2024

Patricia '85 & Dwayne Meloy '85 / Meloy Family Scholarship: **$1,200 per year**, renewable for up to four years. 2022 - 2025

Hutson Twins Scholarship, Texas A&M Academic Excellence Award: **$1,000**. 2022 - 2023

Sean '01 & Heather '99 Golden Southerland Aggie Leadership Scholarship: **$1,000**. 2022 - 2023

Meredith H. James Endowed Scholarship, Texas A&M Opportunity Award: **$1,000**. 2021 - 2022

President's Endowed Scholarship, Texas A&M University: **$12,000** over four years ($3,000 annually). 2021 - 2025

National Merit Recognition Scholarship, Texas A&M University: **$28,000** over four years ($7,000 annually). 2021 - 2025

Craig & Galen Brown Foundation Scholarship: Brown Foundation's published undergraduate EnMed scholarship package value is approximately **$100,000**. 2021 - 2025

Brown Supplemental Scholarship, Brown Foundation: supplemental merit scholarship supporting engineering and pre-medical training. 2021 - 2025

Westwood High School PTSA Scholarship: merit and service scholarship awarded by the Westwood High School PTSA. 2021

National Merit Scholar. 2021 - 2025

University Honors, Texas A&M University. 2021 - 2025

Engineering Honors, Texas A&M University. 2021 - 2025

Dean's List, Texas A&M University. 2021 - 2025

Latin Honors, Texas A&M University. 2025

Executive Leadership & Program Building

Foundation for AI in Medicine (FAIM) **Houston, TX**
President *2026 - Present*

- Lead a 501(c)(3) nonprofit focused on ethical, validated, and translational integration of AI into clinical practice through research, education, and open-access publishing.
- Co-launched the inaugural *Hall of FAIM (FAIM 50)* initiative and positioned JAIM as the Foundation's official peer-reviewed publication; represented FAIM/JAIM at Ai4 2026.

Journal for Artificial Intelligence in Medicine (JAIM) **Houston, TX**
Founding Editor-in-Chief *Aug 2025 - Present*

- Founded and direct the editorial strategy, peer-review infrastructure, digital systems, and interdisciplinary growth of a journal dedicated to rigorous clinical AI (ISSN 3070-121X).
- Published the journal's launch editorial in December 2025; opened manuscript submissions May 15, 2026; built an editorial/advisory network spanning clinical medicine, engineering, academia, and health-system leadership.

Sling Health **National**
President *May 2026 - Present*

- Lead national strategy, chapter development, partnerships, digital infrastructure, and founder programming for a student-run med-tech accelerator with **15+ chapters** and **180+ launched teams**. Sling Health reports **$220M+ in follow-on funding** across network ventures and **$900K+ invested** in student founders.
- Previously served as National VP of Information Technology (Aug 2024 - May 2026), Sling Health @ TAMU Director of Outreach (2024 - 2025), PR/Outreach Chair (2022 - 2024), Team Lead (2022), and later mentor/Co-VP within the EnMed chapter ecosystem.

MD+ **New York, NY**
Director of AI/Data *Mar 2026 - Present*

- Lead AI/data strategy and technical infrastructure for a national physician-innovator community; build internal systems supporting programs, applications, community operations, and innovation initiatives.
- Helped build and launch the inaugural **10-week MD+ Catalyst Fellowship**: **100+ fellows across 34 teams**, with application review, mentor matching, sponsor coordination, workshops, and Demo Day. Program partners included Anthropic, OpenEvidence, Google, and a16z Bio + Health.

Houston Global Health Collaborative **Houston, TX**
Co-Chair, 15th Annual Conference (2027) *2026 - Present*

- Co-lead a multi-institutional, student-run global-health conference uniting trainees across Baylor, UTHealth Houston, UTMB, Rice, University of Houston, Texas A&M EnMed, and other Texas Medical Center institutions.
- Previously served on the 2026 Technology Committee for a conference with **150+ registrants, 50+ research posters, 14 speakers, two workshops, two tracks, and $16K+ in sponsorship support**.

Aggie Innovators, Mays Business School **College Station, TX**
Director / Founding Student Ambassador *2025 - 2026*

- Helped establish student-facing AI and innovation programming at Texas A&M, connecting technical builders with business, entrepreneurship, and university AI initiatives.

EnMed e-NABLE **Houston, TX**
Technology Chair *2025 - Present*

- Lead technical infrastructure, digital intake systems, and fabrication workflows for an EnMed chapter developing zero-cost 3D-printed upper-limb assistive devices for Greater Houston recipients.

Research & Technical Experience

Baylor College of Medicine **Houston, TX**
Graduate Research Assistant *Aug 2025 - Present*

- Engineer fMRI and multimodal pipelines integrating LLM embeddings, representational similarity analysis, encoding models, and individualized neuromodulation to characterize semantic and visuospatial brain networks.
- Contributed to research using a now-patented individualized fMRI-guided neuromodulation system and to multiple presentations across Houston Methodist, Rice University, University of Houston, and neurotrauma/dementia forums.

TMC Innovation Factory (TMCi) **Houston, TX**
Founder-in-Residence Intern *Dec 2025 - Present*

- Conduct patent landscape analyses, prior-art searches, claims review, competitive mapping, and commercialization diligence for med-tech concepts; assess novelty, overlapping embodiments, freedom-to-operate considerations, and translational risk.

Ditto **Houston, TX**
CEO & Co-Founder *Nov 2025 - Present*

- Co-founded a VentureWell-backed medical-technology platform building computational human twins and physical validation twins for simulation-based device R&D, with an initial cardiovascular and ultrasound-validation focus.
- Developed a provenance-aware patient-state architecture, solver-validation framework, interactive CT-to-phantom pipeline, and public research interface. Public project site.

Hatchleaf **New York, NY**
AI Engineering Intern *Sep 2025 - Apr 2026*

- Supported the launch of ProviderIQ, integrating EHR systems and clinical workflow requirements into healthcare AI product development; contributed to systems engineering, usability, and deployment readiness.

Uber **San Francisco, CA**
AI Training, GTM / AI Quality Engineer *Jul 2025 - Apr 2026*

- Evaluated generative-AI prompts and outputs for quality, alignment, and regression behavior; performed production-grade defect reporting and supported recruitment/onboarding for a pilot campus strategist program.

Perplexity **San Francisco, CA**
GTM / Campus Lead; previously Business Fellow (Comet Activator) *Mar 2025 - Present*

- Helped launch Perplexity Enterprise Pro across Texas A&M, enabling university-wide access for approximately **70,000 students, faculty, and staff**; delivered demos and AI-literacy programming.
- Secured **$40,000 in enterprise workspace support** associated with AI-healthcare/startup initiatives; collaborated with product, growth, and research stakeholders.

Mays Business School, Texas A&M University **College Station, TX**
Ambassador for AI *Apr 2025 - Jun 2026*

- Supported university-wide AI adoption, industry partnerships, student programming, and the rollout of Perplexity Enterprise Pro; represented student innovation in campus and external AI initiatives.

Center of Excellence in Cancer Research / IPGx **Houston, TX**
Senior Software Developer; previously Software Developer *Aug 2024 - Nov 2025*

- Built React modules, 12 data-entry pipelines, EMR interoperability workflows, LifeGraphs, and BurstIQ-backed infrastructure supporting cancer biomarkers, early detection, and translational data systems.
- Integrated clinical, genomic, and research data to improve traceability, workflow efficiency, and data quality across precision-medicine initiatives.

AnalyticAI **College Station, TX**
Founder *Aug 2023 - Jul 2025*

- Founded an NSF I-Corps-supported medical-AI venture; conducted **150+ customer-discovery interviews** with stakeholders across NIH, NCI, VA, Dell Seton, Houston Methodist, academia, and industry.
- Secured **$15,000+ in non-dilutive support** across venture activities and advanced the project through NSF I-Corps, Ai4,

the Raymond Ideas Challenge, GEO Conf, and other innovation programs.

Texas A&M College of Medicine **College Station, TX**
Medical Researcher *Jan 2022 - Dec 2023*

- Developed multiscale computational models of lymphatic-system function using Java and Fiji; completed 300+ laboratory/research hours spanning lymphatic biology, vascular biology, microcirculation, imaging, and computational analysis.

Houston Methodist Research Institute **Houston, TX**
Cardiovascular Researcher *May 2022 - Aug 2022*

- Investigated PKD1/Polycystin-1-related iPSC-derived ventricular cardiomyocyte morphology and function using Western blotting, qPCR, DNA assays, protein retrieval, and cell culture.

Dallas Orthopedic & Shoulder Institute **Sunnyvale, TX**
Medical Assistant / Referrals Coordinator *2021 - 2022*

- Completed 400+ clinical-employment hours and coordinated referrals, front-desk workflows, and specialized orthopedic care across more than 2,500 patient cases.

Current & Selected Research / Engineering Projects

Automated Aortic Sizing & Endovascular Procedure Planning **Houston, TX**
Student Principal Investigator, Capstone *Sep 2026 - Present*

- Lead a **$24,000** funded capstone developing CTA/DICOM preprocessing, aortic segmentation, centerline extraction, automated orthogonal measurements, software-MVP integration, and quantitative validation against clinician measurements; host faculty: Maham Rahimi, MD, PhD.

Remora Active Aortic Remodeling System **Houston, TX**
Co-Founder & Lead *2026 - Present*

- Lead device architecture, simulation strategy, and venture development for an active endovascular aneurysm-sac plication and graft-stabilization concept using segmented, tension-activated mural attachment.
- Built concept CAD, in-vivo visualization assets, engineering deliverables, public product materials, and a patent-development package with a four-inventor team. Public project site.

VascuVision **Houston, TX**
Co-Developer *2025 - Present*

- Develop predictive spatial-temporal AI and computer-vision methods for catheter-to-vessel interaction and endovascular safety; received 1st Place recognition at the Texas Society of Neuroradiology and was presented internationally at CIRSE 2026 in Copenhagen. Web demo.

Vasculator / VasculatorAI **Houston, TX**
Developer / Research Collaborator *2025 - Present*

- Developed decision-support components for a vascular-surgery platform with **16 specialized risk/protocol tools**, guideline-based calculations, evidence synthesis, and specialized medical-LLM support; presented at Vascular Annual Meeting, TMC AI Summit, and Pumps & Pipes. vasculator.net.

TEER / MC AURA **Houston, TX**
Developer *2026 - Present*

- Built patient-specific decision support for transcatheter edge-to-edge mitral repair using public 3D TEE anatomy, MitraClip geometry, reduced-order hemodynamics, and placement optimization to compare candidate clip strategies before intervention.
- The research prototype includes **105 patient valve geometries** from MVSeg2023 and an interactive browser simulator. Public project site.

DentAlculator **Houston, TX**
Co-Investigator / Co-Developer *2026 - Present*

- Co-developed an open, guideline-anchored dental clinical decision-support platform translating multi-society recommendations into transparent deterministic chairside tools.
- Completed synthetic guideline-concordance testing across **2,500 reference cases and 11 clinical modules**, with reported 100% concordance against implemented ADA, AAPD, AHA, and AAP/EFP rules; work prepared for AADOCR 2027. dentalculator.com.

Somakin / HINTS **Houston, TX**
Co-Founder & Developer *2026 - Present*

- Co-develop a patient-facing medical-visit preparation platform and HINTS workflow for webcam-based oculomotor assessment, emphasizing structured communication, privacy, and clinically interpretable interfaces. somakin.bio.

MedBack / CareLink **Houston, TX**
Developer *2026 - Present*

- Built a connected-care pipeline linking patient intake and continuity tasks with AI-assisted plain-language discharge translation, conversational teach-back verification, and a staff follow-up dashboard. Public demo.

Articulō **Houston, TX**
Developer / Researcher *2026*

- Built a local-first hand and wrist measurement studio supporting instrument entry, photo annotation, camera-estimated geometry, calibrated depth input, audit trails, and agreement/error analysis; accepted to Plastic Surgery The Meeting 2026. Public app.

CTBone **Houston, TX**
Developer / Researcher *2026*

- Built an open research platform investigating whether opportunistic CT bone-quality features can add information beyond density alone, with reproducible feature extraction, model evaluation, public methodology, and an interactive research workspace. Public research site.

CURES-AI-UDS **Houston, TX**
Developer / Researcher *2026*

- Built an explainable, leakage-audited proof-of-concept for multilabel urodynamic classification and structured clinician-facing report drafting using a public pressure-flow dataset, including model comparison and explainability workflows. Public microsite.

ECG Arrhythmia Classification / Vitalis **Houston, TX**
Developer / Presenter *2025 - 2026*

- Developed CNN-based arrhythmia classification workflows using more than **100,000 ECG samples**, including imbalance-aware loss functions, augmentation, ensemble methods, and real-time-facing visualization; project reached the Pumps & Pipes podium/top four. Public demo.

Additional Clinical AI & Engineering Prototypes **Houston, TX**
Developer *2025 - Present*

- Built additional research/product prototypes spanning preoperative triage (PreHABx), adverse-drug-event NLP (RxRadar), sepsis early warning, portal-hypertension monitoring, GI operational intelligence (MARGIN), IV flow monitoring, and specialty-specific open risk modeling.
- Developed technical infrastructure for EnMed Health Innovations, the Computational Medical Imaging Group, EnMed e-NABLE, Mays AI/finance programming, and other student/research initiatives.

Wearable Physician Burnout Detection **Sling Health @ TAMU**
Team Lead *2022*

- Led development of a wearable data-analysis concept to isolate physician stressors/burnout; conducted 30+ physician discovery interviews and prototyped in SwiftUI/Xcode.

Peer-Reviewed Publication

- Silva, P. J., Tao, J., Rogers, S. L., He, Q., **Robert, J. D.**, Black, L., Bruce, S. A., Shireman, P. K., & Ramos, K. S. (2026). *Data Stewardship Barriers to Building Digital Twin Technology for Precision Medicine*. *AI in Medicine*. doi:10.3390/aimed1030020.

Invited Speaking & Oral Presentations

Ai4 2026 **Las Vegas, NV**
Invited Speaker / Fireside Chat *Aug 2026*

- Spoke on "Inside Houston Methodist Hospital: Deploying AI in Practice" with Roberta Schwartz, EVP/CIO of Houston Methodist; represented JAIM, Houston Methodist, EnMed, and FAIM in a discussion of clinical AI deployment, governance, workflow redesign, and AI literacy.

Selected Research Conference Presentations

1. **Robert, J.**, Norton, J., Pillai, C., Hashmi, T., Tobeh, S., & Shaik, S. (2025). *Deep Learning-Based Automated Classification of Cardiac Arrhythmias from Electrocardiogram Signals Using Convolutional Neural Networks*. Pumps & Pipes, **Top 4 Podium Presentation**.
2. **Robert, J.**, Pillai, C., Noorbakhsh, C., Allam, A., Reddy, S., & Papageorgiou, T. D. (2026). *LLM Representational Similarity Analysis Reveals Sex Differences in AI-Guided Individualized Neuromodulation of Visuospatial Networks*. AI in Health Conference, conference presentation.
3. **Robert, J.**, Pillai, C., Noorbakhsh, C., Allam, A., Reddy, S., & Papageorgiou, T. D. (2026). *Sex-Dependent Differences in Network-Level Response to Individualized Neuromodulation Targeting Visuospatial Decline Presenting as a Prodromal Phase to Dementia*. 15th Annual Nantz National Alzheimer Center Symposium, Houston Methodist, research presentation.
4. **Robert, J.**, Pillai, C., Reitman, J., Noorbakhsh, C., Vemu, R., Allam, A., Reddy, S., Yao, K., Davis, M., Bishara, B., et al. (2025). *Decoding the Semantic Brain: Linking LLM Embeddings to Individualized Neuromodulation via RSA and Encoding Models*. 31st Annual Neuroscience Research Conference, conference presentation.
5. **Robert, J.**, Pillai, C., Reitman, J., Noorbakhsh, C., Vemu, R., Allam, A., Reddy, S., Yao, K., Davis, M., Bishara, B., et al. (2025). *Integrating Large Language Models with Generalized Linear Models (LLM-GLM) to Enhance AI-Driven Individualized Neuromodulation (iNM) Targeted for Cognitive Restoration Post-TBI*. Robert G. Grossman Mission Connect Neurotrauma Symposium, conference presentation.
6. **Robert, J.**, Pillai, C., Reitman, J., Noorbakhsh, C., Vemu, R., Allam, A., Reddy, S., Yao, K., Davis, M., Bishara, B., et al. (2025). *Hybrid LLM and Classical ML Models Improve iNM with Targeted Visuospatial Network Activation for Early Cognitive Decline Intervention*. 2nd Annual Rice University Center for Nanoscale Imaging Sciences Conference, conference presentation.

Posters, Scientific Presentations & Conference Abstracts

1. **Robert, J.**, Rashidi, K., & Balbin, R. (2026). *Articulō: A Privacy-First Edge Computing Platform for Clinical-Grade Hand and Wrist Kinematic Assessment*. Plastic Surgery The Meeting 2026, accepted poster (October 2026).
2. **Robert, J.**, Bannikov, S., Atkins, A., Shaik, S., & Balesh, E. (2026). *VascuVision: Predictive Spatial-Temporal AI for Preventing Iatrogenic Vessel Injury*. CIRSE 2026, Copenhagen, poster.
3. **Robert, J.**, Muruganandham, A., Mecham, K., Salmon, D., Schindler, D., Haque, A., & Rahimi, M. (2026). *A Novel Digital Toolkit for Guideline-Based Decision Making in Vascular Surgery: Vasculator.net*. VAM26: Vascular Annual Meeting, poster.
4. **Robert, J.**, Bannikov, S., & Atkins, A. (2026). *VascuVision: AI-Powered Real-Time Collision Detection and Early Warning System for Endovascular Interventions*. Texas Society of Neuroradiology, scientific presentation; project received 1st Place recognition.
5. **Robert, J.**, Muruganandham, A., Mecham, K., Salmon, D., Haque, A., Schindler, A., & Rahimi, M. (2026). *VasculatorAI: A Dual-Engine Platform Combining Evidence-Based Risk Stratification with Specialized LLM Support*. TMC AI Summit, poster.
6. **Robert, J.**, Hashmi, T., Tobeh, S., Norton, J., Pillai, C., & Shaik, S. (2026). *Resolving the Long-Tail Problem in Cardiac*

AI: Stratified Deep Learning for Rare Arrhythmia Recognition. TMC AI Summit, poster.

7. **Robert, J.**, Bannikov, S., & Atkins, A. (2026). *VascuVision: Real-Time Computer Vision for Intraoperative Endovascular Safety*. TMC AI Summit, poster.
8. **Robert, J.**, Pillai, C., Noorbakhsh, C., Allam, A., Reddy, S., & Papageorgiou, T. D. (2026). *Encoding Semantic Brain Magnitude and Expansion of Visuospatial Networks, Biomarkers of Subjective Cognitive Decline Using LLM Embeddings to Quantify Individualized Neuromodulation*. UH Mind Dementia Unlocked Symposium, poster.
9. Muruganandham, A., Mecham, K., **Robert, J.**, Salmon, D., Haque, A., Schindler, A., & Rahimi, M. (2025). *A Novel Digital Platform for Guideline-Based Decision Making and Risk Assessment in Vascular Surgery: Vasculator.net*. Pumps & Pipes, poster.
10. **Robert, J.**, Pillai, C., Reitman, J., Noorbakhsh, C., Vemu, R., Allam, A., Reddy, S., Yao, K., Davis, M., Bishara, B., et al. (2025). *Integrating Large Language Models with Generalized Linear Models (LLM-GLM) to Enhance AI-Driven Individualized Neuromodulation (iNM) Targeted for Cognitive Restoration Post-Chemotherapy*. SynthX / Duncan Cancer Center Retreat, poster.
11. **Robert, J.**, Reitman, J., Noorbakhsh, C., Vemu, R., Allam, A., Reddy, S., Yao, K., Pillai, C., Davis, M., Bishara, B., et al. (2025). *Linear Support Vector Machine, General Linear Models, and Large Language Model Enhance Visuospatial Perception Decoding Induced by Individualized Neuromodulation: Targeted for Early Cognitive Impairment Treatment*. Alzheimer's & Dementia Research Symposium of Southeast Texas, poster.
12. **Robert, J.** (2025). *Multi-Omic AI Pipelines for Accelerated Therapeutic Target Discovery*. New Horizons in Drug Discovery: Welch Conference, poster.
13. **Robert, J.** (2025). *Revolutionizing Drug Discovery with AI-Driven Mechanistic Coherence*. AI in Health 2025, Ken Kennedy Institute at Rice University, poster.
14. **Robert, J.** (2025). *Multi-Model AI for Target Prioritization in Drug Development*. Texas A&M Institute of Pharmacology & Neurotherapeutics Research Symposium, poster; **Best Poster (MD)**.

Clinical Training & Healthcare Experience

Houston Methodist / EnMed Surgical Bootcamp — **Houston, TX**
Selected Participant — *Summer 2026*

- Completed two weeks of intensive surgical exposure and hands-on specialty training; selected for an organ-procurement trip and observed multidisciplinary procurement, thoracic surgery, and transplant workflows.

Clinical Employment: 400+ hours as a medical assistant/referrals coordinator in orthopedic care; 2,500+ patient cases supported. — 2021 - 2022

Medical Shadowing: 100+ hours across virtual and clinical education experiences, including emergency medicine and multidisciplinary physician sessions. — 2020 - 2021

Healthcare Volunteering: St. David's Medical Center and Baylor Scott & White Health across NICU, rehabilitation, emergency/triage, catheterization lab, labor & delivery, and medical/surgical units. — 2018 - 2019

Additional Leadership, Service & Community Engagement

CONNECT, PR Executive: communications, social media, recruitment, merchandise, marketing collateral, and community events. — 2023 - Present

FLASH: Grand Mentor / Big Staff / Give Back Committee; student mentorship and service. — 2021 - 2024

Fish Camp: Counselor; incoming-student mentorship and Texas A&M transition programming. — 2024

Texas A&M National Scholar Ambassadors (TANSA): PR Board / merchandising and prospective-student engagement. — 2021 - 2022

MEDLIFE, BUILD TAMU, The Big Event, Ags Reach, Samaritan's Purse: public-health outreach, community development, service, and humanitarian activities. — 2018 - 2025

Texas A&M Emergency Care Team: member; first-aid education and campus emergency-care training. 2021 - 2022

LMSA PLUS: member; service, mentorship, and pre-medical education with emphasis on underserved communities. 2021 - 2022

OpenAI Forum, AI in Healthcare: participated in healthcare-AI discussions and community programming. 2024 - Present

Ora AI (Y Combinator Summer 2023): 2026 medical-education collaboration and outreach around an adaptive AI study platform for medical trainees. 2026

Technical Competencies

Programming & Analysis: Python, R, Java, C++, JavaScript/TypeScript, SQL, Swift, HTML/CSS, LaTeX; data pipelines, statistical analysis, scripting, API integration.

AI / Machine Learning: PyTorch, TensorFlow, scikit-learn, Hugging Face, LLM evaluation, prompt/system evaluation, computer vision, multimodal analysis, representational similarity analysis, model prototyping.

Full-Stack / Cloud: React.js, Node.js, Firebase, Google Cloud, GitHub, Docker, MongoDB, REST APIs, web deployment, data architecture.

Clinical / Research Tools: DICOM workflows, ImageJ/Fiji, Epic, eClinicalWorks, REDCap, qPCR, Western blotting, cell culture, medical coding, clinical workflow mapping.

Design / Communications: Adobe Photoshop, Adobe InDesign, Canva, Mailchimp, Google Analytics, Campaign Manager.

Languages: English, Spanish, Hindi.

Certifications & Professional Development

AI & Data Science: Anaconda Python for Data Science; Career Essentials in Generative AI (Microsoft); Artificial Intelligence Foundations: Neural Networks; Hands-on Data Science and AI for Healthcare.

Programming / DevOps: C++ Programming Professional Certificate (OpenEDG); JavaScript Foundations (Mozilla); Master SQL Development; Career Essentials in GitHub; DevOps Professional Certificate (PagerDuty); Docker Foundations; Microsoft Copilot for Productivity.

Project / Security / Compliance: Atlassian Agile Project Management Professional Certificate; Career Essentials in Cybersecurity (Microsoft); Texas A&M TrainTraq training in export controls, information security, ethics/fraud, FERPA, and institutional compliance.

Healthcare / Safety: Basic Life Support / CPR & AED (American Heart Association, current through 2027); Opioid Overdose Education & Naloxone Administration; HIPAA 101; HIPAA & Security; Building a HIPAA Compliance Program.

Design / Engineering: Adobe InDesign Professional Certificate; Adobe Photoshop Professional Certificate; Siemens Design & Manufacturing, EDA Explained, Future of Industry, and Industry Foundations credentials.

Updated September 2026