Joshua Robert

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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 in the Texas Medical Center; Research Chair, Class of 2029; focus on clinical AI, surgical innovation, and medical-device development.

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

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

- Selected from **1,500+ applicants** for Delta II; founder training at the intersection of AI, biotechnology, and healthcare, with Stanford Medicine and a16z exposure.

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

- Craig & Galen Brown Foundation Scholar; National Merit Scholar; President's Endowed Scholar; University Honors; Engineering Honors; E2EnMed early assurance.

Selected Honors, Awards & Funding

EnMed Capstone Innovator Award: Student PI for AI-driven aortic sizing/endovascular planning platform; **$24,000**. — 2026

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

National Merit Recognition Scholarship: **$28,000**; **President's Endowed Scholarship**: **$12,000**. — 2021 - 2025

VentureWell Pioneer Grant / E-Team Stage I: Ditto; **$5,000**. — 2026

Meloy Innovators Awards: **$2,500** for JAIM/Ai4 (2026) and **$2,500** for AnalyticAI/Ai4 (2024). — 2024, 2026

1st Place, Texas Society of Neuroradiology: VascuVision; **Lawrence J. Del Papa Distinguished Chair Award**; **Best Poster (MD)**. — 2025 - 2026

Additional scholarships: Meloy Family ($1,200/year), Pfister ($1,000), BP CSCE ($1,000), Hutson Twins ($1,000), Meredith H. James ($1,000), Golden SALS ($1,000). — 2021 - 2025

Leadership & Professional Experience

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

- Founded and lead editorial strategy, peer review, digital systems, and interdisciplinary growth of an AI-in-medicine journal (ISSN 3070-121X).

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

- Lead a national student-run med-tech accelerator network with **15+ chapters** and **180+ launched teams**; previously National VP of Information Technology (2024 - 2026).

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

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

- Helped build the inaugural 10-week Catalyst Fellowship serving **100+ fellows across 34 teams**; lead AI/data systems and technical infrastructure for a national physician-innovator community.

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

- Develop multimodal neuroimaging/LLM workflows for individualized neuromodulation and cognitive decline; research presented across Houston Methodist, Rice, UH, and neurotrauma venues.

Additional AI & Technical Experience

TMC Innovation Factory (TMCi), Founder-in-Residence Intern: patent landscape, prior-art, competitive, and commercialization analysis for med-tech concepts. 2025 - Present

Perplexity, GTM / Campus Lead: helped launch campus-wide Pro access across Texas A&M's 70,000+ student/faculty community; previously Business Fellow / Comet Activator. 2025 - Present

Uber, AI Training / AI Quality Engineer: evaluated generative-AI prompts and outputs, documented defects/regressions, and supported a pilot campus strategist program. 2025 - 2026

Center of Excellence in Cancer Research: Senior Software Developer; built 12 data-entry pipelines and clinical/research data systems; previously Software Developer. 2024 - 2025

Research, Engineering & Entrepreneurship

Automated Aortic Sizing & Endovascular Planning: Student PI; **$24,000** funded capstone spanning CTA/DICOM preprocessing, segmentation, centerlines, orthogonal measurement, and clinician validation. 2026 - Present

Remora: Co-Founder & Lead; active endovascular aneurysm-sac plication/remodeling concept; lead device architecture, simulation strategy, public visualization, and patent-development work. 2026 - Present

Ditto: CEO & Co-Founder; VentureWell-backed computational/physical human-twin platform for simulation-based device validation; **$5,000 Pioneer Grant**. 2025 - Present

VascuVision: predictive spatial-temporal AI/computer vision for endovascular safety; 1st Place, Texas Society of Neuroradiology; CIRSE 2026. 2025 - Present

Vasculator / VasculatorAI: **16** vascular risk/protocol tools with evidence synthesis and medical-LLM support; presented at VAM, TMC AI Summit, and Pumps & Pipes. 2025 - Present

TEER / MC AURA: patient-specific MitraClip planning with **105 real 3D TEE valve geometries**, reduced-order hemodynamics, and placement optimization. 2026 - Present

DentAlculator: Co-Investigator; deterministic dental CDS tested across **2,500 synthetic cases / 11 modules**; AADOCR 2027 project. 2026 - Present

AnalyticAI: Founder; NSF I-Corps-supported medical-AI venture; **150+ customer-discovery interviews**; **$15K+ non-dilutive support**. 2023 - 2025

Additional deployed research tools: Articulō, Somakin/HINTS, MedBack, CTBone, and CURES-AI-UDS. 2026

Publications, Speaking & Research Output

- **Peer-reviewed publication:** Silva, P. J., et al., including Robert, J. D. (2026). "Data Stewardship Barriers to Building Digital Twin Technology for Precision Medicine." *AI in Medicine*. doi:10.3390/aimed1030020.
- **Invited speaker, Ai4 2026**: "Inside Houston Methodist Hospital: Deploying AI in Practice," with Roberta Schwartz, EVP/CIO, Houston Methodist.
- **Selected oral presentations**: Pumps & Pipes Top 4 podium; AI in Health Conference; 15th Nantz National Alzheimer Center Symposium; 31st Annual Neuroscience Research Conference; Grossman Mission Connect Neurotrauma Symposium; Rice Center for Nanoscale Imaging Sciences Conference.
- **20+ research presentations/abstracts** across clinical AI, neuromodulation, vascular surgery, endovascular safety, cardiac AI, drug discovery, and biomedical engineering, including CIRSE, VAM, TMC AI Summit, UH Mind, and Plastic Surgery The Meeting.

Selected Technology & Skills

Programming/AI: Python, R, Java, C++, JavaScript/TypeScript, SQL, PyTorch, TensorFlow, scikit-learn, Hugging Face, computer vision, LLM evaluation, multimodal analysis.

Clinical/Research: DICOM, ImageJ/Fiji, Epic, REDCap, statistical analysis, clinical workflow mapping, qPCR, Western blotting, cell culture.

Development: React.js, Node.js, Firebase, Google Cloud, GitHub, Docker, REST APIs, data architecture, GitHub Pages/Vercel deployment.

Public build portfolio: joshdrobert.github.io includes deployed clinical AI, digital-twin, imaging, decision-support, and med-tech interfaces.

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