

EDUCATION

Stanford University School of Engineering

Bioengineering with Honors Bachelor's Degree

Computer Science Master's Degree

Sept 2022 - June 2026

Sept 2024 - June 2027

EXPERIENCE

IBM Verify – Software Developer Intern

June 2026 – Present

- Develop agentic AI applications for IBM Verify to automate identity risk analysis using LLMs and automated reasoning.
- Build scalable Python services, APIs, and data pipelines for large-scale security analytics.
- Quantitatively evaluate and optimize AI systems for latency, accuracy, and reliability.

Inspirit AI – AI Instructor

June 2026 – Present

- Teach Python, machine learning, and AI concepts to high school students through project-based instruction.
- Mentor students in designing and implementing end-to-end AI projects using real-world datasets.
- Provide technical guidance on model development, evaluation, and optimization.

Medtronic Diabetes - Research & Development Intern

Jun 2025 – Aug 2025

- Automated in-vitro test data collection and visualization using Python and REST APIs for a new glucose analyzer.
- Developed benchmarking tools to evaluate device performance using statsmodels and scikit-learn for statistical and regression analysis.
- Streamlined workflows via secure data pipelines, ETL automation, and Git-based version control.

Stanford Medicine Medical Kiosk - Software Developer

Jan 2025 – Present

- Developing kiosk software to expand healthcare access in underserved communities.
- Building multilingual intake and symptom-check modules with REST APIs, SQL backends, and secure HIPAA-compliant data pipelines.
- Integrating medical device APIs with Dockerized microservices for scalable deployment and synchronization.
- Collaborating with clinicians and engineers to refine UX through user feedback loops and iterative A/B testing.

Stanford Computer Science Department - Teaching Assistant

Sep 2023 – Present

- Mentoring students in C++, Python, and JavaScript, emphasizing code design and debugging best practices.
 - Help students debug their code and provide constructive feedback in 1:1 meetings.
 - Promoting software engineering fundamentals, version control, and testing methodologies
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RESEARCH & PROJECTS

Gordian Knot Center for National Security Innovation - Project Founder & Lead

Sep 2025 – Present

- Designing a biosurveillance “digital immune system”: AI/ML anomaly detection, multimodal data fusion, real-time streaming analytics for early-warning of outbreaks and biodefense threats.
- Shipping a prototype pipeline + dashboard on synthetic datasets with Python, SQL, time-series modeling, ETL, containerization; tracking latency and precision/recall KPIs.
- Deploying a secure, fault-tolerant data infrastructure with containerized services, API gateways, and automated recovery to ensure resilience and reliability in biosecurity signal processing.

Stanford Fontan Hemodynamics & AVM Risk Research Project - Researcher

Feb 2025 – Present

- Building a Python-based data pipeline to extract and quantify hepatic flow metrics from 4D flow MRI using NumPy, SciPy, and Matplotlib.
- Applied signal processing and pattern recognition for AVM biomarker detection; implemented statistical validation and data visualization with Seaborn and Plotly.
- Automated benchmarking workflows with Git/GitHub, Bash, and CI/CD for reproducible research pipelines.

Product Manager — Brain Injury Connection (BIC)

Oct 2025 – Feb 2026

- Led end-to-end redesign of an accessible, cognitive-friendly website for ABI patients and caregivers.
- Defined product requirements, user flows, and feature scope and iterated over period with BIC stakeholders
- Coordinated design and low/no-code implementation with team of engineers and designers
- Partnered with BIC to deliver an intuitive resource platform aligned with mission and user needs.

Stanford Fallacy Detection CS Research Project - Researcher

Jun 2023 – Dec 2023

- Benchmarked LLMs for fallacy detection; built baselines in Python (transformers, scikit-learn) with precision/recall/F1 reporting.
 - Curated datasets and prompts; implemented ETL, feature engineering, and reproducible eval pipelines.
 - Co-developed a fallacy detector; performed ablation studies and error analysis to refine model design.
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AWARDS

Stanford Award of Excellence

Stanford Gordian Knot Center National Security Innovation Scholar

HSF Scholar

SHPE GE Scholarship