Hamed Hekmat

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Education

Stanford University Stanford, CA
Master of Science in Computer Science - 3.861 GPA *Sep. 2024 – Mar. 2026*
Bachelor of Science in Symbolic Systems - 4.047 GPA *Sep. 2021 – June 2025*
Relevant Coursework: DSA, Operating Systems, AI/ML, NLP w/ Deep Learning, Linear Algebra, OOP

Technical Skills

Languages: Python, C++, JavaScript/TypeScript, SQL, SwiftUI, C, R, HTML/CSS, Bash
Frameworks/Tools: FastAPI, Flask, React, Git, Docker, GCP, AWS, Azure, PostgreSQL, MongoDB, Render, Jupyter
Data/AI: TensorFlow, PyTorch, pandas, NumPy, Spark, Hugging Face, sk-learn, openCV, networkx, matplotlib, seaborn

Professional Experience

BRITE Software Engineering Intern Jul. 2025 – Sep. 2025
Stanford University School of Medicine *Stanford, CA*
- Designed/prototyped PI-EHR (Personalized Interactive-EHR), a full-stack application with chatbot and timeline features, enhancing interpretability of medical records and patient comprehension
- Engineered efficient RAG pipeline for chatbot using LangGraph, accommodating both precise SQL retrieval of medical records and vector similarity search of clinical notes, creating LLM guardrails for patient data privacy

Clinical Data Science Intern Jun. 2024 – Sep. 2024
BioMarin Pharmaceutical, Inc. *San Rafael, CA*
- Automated annual database user access audit process, reducing 300+ hours of manual work to 3 minutes
- Developed and validated preprocessing pipeline to standardize clinical data and enforce data quality standards

Performance Improvement Research Assistant / Software Engineer Mar. 2023 – Jan. 2024
Systems Utilization Research For (SURF) Stanford Medicine *Stanford, CA*
- Boosted accuracy of patient flow simulation model from 94% to 98% by modifying patient sampling algorithm, improving reliability for hospital capacity planning
- Designed validation metrics/KPIs to assess model behavior and assist in debugging/performance improvement
- Spearheaded model adaptation for partner institution (RWJBarnabas Health), modularizing codebase for ease of access for other institutions
- Delivered data-driven proposal for 96-bed allocation at new facility, presenting results to hospital president/board

Projects

WishingWell | *Flask, SupaBase, React Native, TypeScript* Mar. 2025 – Jun. 2025
- Developed APIs and (micro)services for iOS app designed for users to spread and receive kind messages daily
- Drove engagement features promoting prosocial behavior (e.g. streaks, LLM-enabled content moderation) in 40 pilot users

Diffusion and Eigenvector Centrality Dominance | *networkx, matplotlib, seaborn* Mar. 2025 – Jun. 2025
- Modeled influence of eigenvector centrality in various diffusion models for optimal seeding problem
- Ran Monte Carlo simulations, visualizing spread on 5 large-scale datasets from Stanford Network Analysis Project

Leadership/Extracurriculars

Course Assistant, CS103: Mathematical Foundations of Computing (2025-2026)
Teaching Assistant, BIOE 375: Preventive Medicine + Entrepreneurship for Societal Health (2025-2026)
Mentor, Stanford AIMI Internship: Guided high schoolers through medical AI fairness research projects (2025-2026)
Peer Counselor, The Bridge: Provided confidential mental health support for Stanford students (2025)
Volunteer, Stanford Digital Medic (Cape Town): Researched impacts of tech adoption by CHWs in LMICs (2024)
Healthcare VC Team, ASES VC Bootcamp: Completed market research on healthtech entrepreneurship (2023)

Additional Information

Trilingual: English, Spanish, Farsi
Other Activities: CS+Social Good, Stanford Students in Biodesign, Club Basketball, KZSU sports commentator