Hamed Hekmat

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Education

Stanford University — Stanford, CA
Master of Science in Computer Science - 3.865 GPA — *Sep. 2024 – Mar. 2026*
Bachelor of Science in Symbolic Systems - 4.046 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
Frameworks/Tools: Flask, React, Git, Docker, GCP, AWS, Azure, PostgreSQL, Supabase, MongoDB, Render, Jupyter
Data/AI: TensorFlow, PyTorch, pandas, NumPy, Spark, Hugging Face, sk-learn, openCV, networkx, matplotlib, seaborn
Other: Microsoft Office (Excel, PowerPoint), GSuite, Tableau, SpotFire, Jira, Figma

Professional Experience

BRITE Software Engineering Intern — Jul. 2025 – Sep. 2025
Stanford University School of Medicine — *Stanford, CA*
- Building full-stack application that integrates chatbot and interactive timeline into MyChart, 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

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

Mentor, Stanford AIMI Summer Internship: Guided high schoolers through AI + medicine research project (2025)
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)
Cofounder + Instructor, Peak Debate Academy: Trained 20+ students in communication/public speaking (2021)

Additional Information

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