POOYA KHOSRAVI

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RESEARCH EXPERIENCES

Graduate Student Researcher
python, pytorch, mlflow

📅 May 2022 – Present 📍 UC Irvine

- Partnered with physicians across multiple hospitals to curate and annotate retinal and OCT imaging datasets.
- Utilized self-supervised and unsupervised approaches for advanced medical imaging analysis.
- Investigated OCT-based biomarkers in neuroinflammatory disorders and glaucoma, resulting in several peer-reviewed publications.

Student Researcher
python, pytorch

📅 Jun 2020 – Aug 2021 📍 UC San Diego Hamilton Glaucoma Center

- Developed multi-modal deep learning models to combine clinical and volumetric image data (OCT and OCT-Angiography) at longitudinal visits to predict the severity, progression, and point-wise patterns of glaucomatous visual field damage on 24-2 and 10-2 test strategies.

PROFESSIONAL EXPERIENCES

Software Engineer
InfiniGlobe

📅 Sep 2019 – Mar 2021 📍 Newport Beach, CA

- Designed and developed machine learning services to automate the data ingestion process and expedite model training using MLFlow and Azure Cloud.
- Leveraged cloud-based technologies to efficiently handle large volumes of data and facilitate scalable model training, seamlessly integrating those models into the production environment

Software Engineer Intern
Boeing

📅 Jun 2019 – Sep 2019 📍 El Segundo, CA

- Designed a system to create data validation SQL queries using configurable mappings with python to streamline data verification at different manufacturing stages of a satellite.

Software Engineer
InfiniGlobe

📅 Jun 2017 – Apr 2019 📍 Newport Beach, CA

- Designed and implemented schedulers and APIs for automatic client data migration, leveraging batch and real-time processing techniques to reduce migration time from 3 days to 50 minutes.
- Built analytic services and dashboards that extracted key performance indicators (KPIs), providing actionable recommendations and contributing to improved risk management of legal vendors and outside counsel.

EDUCATION

University of California, Irvine
School of Medicine
MD/PhD Candidate

📅 Aug 2021 – Jun 2029

University of California, Irvine
PhD in Computer Science

📅 Sep 2022 – Jun 2026

University of California, Irvine
BS in Computer Science and BS in Biomedical Engineering

📅 Sep 2017 – Jun 2020 GPA : 3.99

Irvine Valley College

📅 Jun 2015 – May 2017 GPA: 4.0

TEACHING

- Anatomy Tutor   2022 - 2024
- International Collegiate Programming Contest (ICPC) Coach   2018 - 2024

ACHIEVEMENTS

- The 2023 ICPC North America Championship Bronze Medal, Sixth place Team: UCI Map (Co-Coach)   2023
- Ranked 99th worldwide, 7th in US for IEEEXtreme 13.0   2019
- 2nd place at UCI CyberCTF Information Security Competition   2018

INVOLVEMENTS

- Associated Medical Student Government (AMSG) - Treasurer   2021 - 2023

SKILLS

Advanced:

Python Java C/C++ LaTeX SQL

Intermediate:

JavaScript PHP Matlab

Familiar:

Unix/Linux Bash Powershell