Ameen Salim

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Education

Georgia Institute of Technology — Atlanta, GA (Remote)
M.S. in Computer Science — *Expected Graduation: June 2027*

University of California, Davis — Davis, CA
B.S. in Computer Science — *June 2025*

- Relevant Coursework: Machine Learning, Deep Learning, Data Structures and Algorithms, Linear Algebra, Systems Programming, Computer Architecture

Technical Skills

Languages: Python(3yrs), JavaScript(2yrs), C/C++(1yrs), SQL
Software: GCP, Docker, React.js, Node.js, Flask, FastAPI, React Native, MongoDB, Express.js, Next.js, NLP, pandas, NumPy, ffmpeg, PyTorch, sci-kitlearn, OpenCV, GitHub CI, LLMs, Retrieval-Augmented Generation, Agentic AI, Git

Experience

Software Engineer — June 2024 – Present
MyGenie — *Bay Area, CA*

- Building automated AI training pipeline for RadNerf model avatars, replacing manual processes and enabling more people to create personalized digital representations
- Engineered video processing API to train videos via GPU-accelerated Google Cloud Run
- Built APIs deployed on GCP using GCS and Cloud Run helping users create meaningful digital connections faster
- Optimized facial extraction algorithms by tweaking parameters and adding pixel offsets for better orientation detection, improving accuracy by 15% and ensuring more people get quality results on first attempt

Software Engineer Associate — September 2024 – June 2025
Artificial Intelligence Student Collective — *Davis, CA*

- Architected real-time communication systems for ASL translation technology, providing accessibility solutions for the deaf and hard-of-hearing community with sub-100ms latency
- Developed computer vision pipeline for hand gesture recognition at 30+ FPS, creating technology that enables communication access for individuals with hearing impairments

AI Software Engineer Intern — June 2024 – September 2024
PrimisAI — *Los Gatos, CA*

- Debugged and tested a multi-AI agent system for RTL code review and correction, ensuring database retrieval consistency and helping developers create more reliable systems for end users
- Benchmarked metrics for RAG Pipeline System, increasing system efficiency by 20%, reducing processing time, and enhancing retrieval accuracy enabling faster access to critical information
- Spearheaded CI/CD pipeline implementation using GitHub Actions, accelerating API release cycles and minimizing downtime during updates and ensuring continuous service availability for users

Projects

Analyzing Policing Efficiencies in San Francisco | *Python, TensorFlow, sci-kitLearn*

- Operationalized a machine learning model to optimize police resource allocation by predicting incidents and processing a dataset of 900k+ dispatch records from the San Francisco Police Department, with the goal of reducing response times and enhancing public safety for community members
- Utilized Python with pandas, scikit-learn, and TensorFlow to implement Random Forest and K-means clustering, achieving an MSE of 59.41 and R-squared of 0.996 for monthly incident predictions improving community safety outcomes

Loan Approval Predictor | *Python, Pandas, sci-kitLearn*

- Used a 900k+ financial dataset to evaluate loan approval chances based on features such as number of assets, CIBIL score, and credit score helping people gain access to financial resources that improve their lives
- Engineered and validated two predictive machine learning models, achieving accuracies of 91.9% and 89.4% through hyperparameter tuning and cross-validation enabling more equitable access to financial opportunities