

Damond Fang

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Education

University of California, Berkeley

B.S. Electrical Engineering and Computer Science

Berkeley, CA

Dec 2025

Project Lead of Open Project - Directed development of complex technical projects within small teams

- Currently working on CRAM, a client project with HARP Research - Memorization Assistant SaaS Application

Work Experience

Amazon Web Services

Seattle, WA

Software Development Engineer Intern | AWS IAM - Security Token Service

May 2024 - Aug 2024

- Designed and Implemented new security features for DynamoDB replication Lambda function, including cryptographic signing for attributes, client-side encryption and decryption capabilities, dependency injection, automatic secret key rotation, significantly enhancing security protocol
- Utilized AWS Database Encryption SDK, DynamoDB, Hash-Based Authentication codes (HMACs), AES-GCM digital signature algorithms to ensure data privacy. Optimized memory usage, resulting in **5x faster execution duration** and **77% cost reduction**
- Implemented metric tracking such as CPU usage, execution duration, and CloudWatch logging, providing runtime insights for seamless debugging and usage analysis for stakeholders
- Integrated the new Lambda function into newly created pipeline infrastructure and engineered automated key generation during Lambda deployment, **eliminating manual overhead by 80%**

Reinsurance Group of America

Chesterfield, MO

Software Engineer Intern | Full Stack, Actuarial Solutions

Jun 2023 - Aug 2023

- Added **frontend** features using **React.js**. Worked with **backend** API endpoints to optimize execution speed and best practices. Debugged various rendering issues on fullstack web app
- Optimized risk calculation AWS lambda and step functions, resulting in **increased execution efficiency by 35%**, driving faster and reliable mathematical analytic processes
- Resolved **100%** of detected software vulnerabilities on cloud infrastructure repositories, preventing potential outages. Improved stability of production by increasing up to **100%** test coverage for various lambda functions

City College of San Francisco

San Francisco, CA

Teaching Assistant | Computer Science Fundamentals

Jan 2022 - May 2022

- Graded **30+ students** weekly assignments and provided 1:1 tutoring services for programming guidance
- Collaborated with instructors to assist students in coding concepts, provided feedback on code submissions

Projects

Fit Form Tracker - AI Exercise Buddy | github.com/Damond-F/Fit-Form-Tracker

- Placed in **top 15** out of 250+ in UC Berkeley CalHacks AI Hackathon, offered opportunity for **\$10,000+ VC funding**
- Leveraged Flask and OpenCV for movement tracking of body joints using computer vision, with automatic CSV data conversion for analysis

When2rsf - Gym Crowdedness Predictor Website | github.com/ikeg225/when2rsf

- Utilized Scikit Learn for a Random Forest Classifier, integrated real time reverse-engineering, yielding RMSE of 11
- Deployed Full-stack website using React.js, Flask, and Heroku, displaying interactive data visualization

Skills

- Languages: Python, JavaScript, C, C++, Java, SQL, TypeScript, Rust, Go, Scikit-Learn, Data Structures, Algorithms
- Front-end: React.js, React, Angular, Redux, Figma, HTML, CSS
- Back-end: Node.js, Flask, MongoDB, CockroachDB, OpenCV, NoSQL, AWS, Terraform, Express, AWS Lambda, IAM
- Technologies: Docker, Git, GraphQL, Jenkins, CI/CD, Heroku, NumPy, Pandas, MERN, SDLC, Kubernetes, TCP/IP