Damond Fang

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Education

University of California, Berkeley   **Berkeley, CA**
B.S. Electrical Engineering and Computer Science   Dec 2025
• *Project Lead of Open Project - Directed development of complex technical projects within small teams*

Work Experience

Amazon   **Seattle, WA**
Software Development Engineer Intern | AWS IAM - Security Token Service   May 2024 - Aug 2024
• Rewrote cross-region DynamoDB replication lambda function, to include client-side encryption/decryption, significantly enhancing security protocol
• Refactored lambda code by utilizing dependency injection and optimizing memory usage, resulting in **5x faster execution time** and **77% reduction in lambda costs**
• Implemented metric tracking for CPU usage, execution duration, and CloudWatch logging, providing runtime insights
• Integrated the new lambda into new pipeline and added automated key generation to eliminate manual overhead

Reinsurance Group of America   **Remote**
Software Engineer Intern | Actuarial Solutions Team   Jun 2023 - Aug 2023
• Increased execution efficiency by up to **35%** for **AWS Step Functions** and **Lambda** services, driving faster and more reliable cloud-based processes on risk calculation web platform
• Resolved **100%** of detected critical software vulnerabilities on cloud infrastructure repository, preventing potential outages and application failures
• Improved stability and reliability of production by increasing up to **100%** test coverage for various lambda functions
• Implemented Redux with React-based application, streamlining developer environment and code maintainability

Codeday Labs   **Remote**
Intern | Software Engineering   Jun 2022 - Aug 2022
• Designed and built an application that calculates investment risk using sentiment analysis and NLP processes
• Developed Selenium web scraper, engineered system to automatically input **1,000+** entries into database

City College of San Francisco   **San Francisco, CA**
Teaching Assistant | Computer Science   Jan 2022 - May 2022
• Graded **30+ students** weekly assignments and provided 1:1 tutoring services for coding guidance

Projects

When2rsf.com - Gym Crowdedness Predictor Website | [Github](#)
• 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

Fit Form Tracker - AI Exercise Buddy App | [Github](#)
• Placed **top 15** out of 250+ in UC Berkeley Hackathon. Leveraged **OpenCV** for coordinate movement tracking

Road Radar - Live Road Incident Map Website | [Github](#)
• Developed interactive map website with navigation using **React**, **Node.js**, displaying nearby traffic incidents

Skills

• Programming: Python, JavaScript, C++, Java, SQL, HTML, CSS
• Technologies: Django, MongoDB, Nodejs, React, Redux, Docker, Git, Flask, Figma, Scikit Learn, Heroku, Jenkins, Qt, GraphQL, AWS, Terraform, Express, NoSQL, OpenCV, CockroachDB, MERN stack, Lambda
• Other: Security, Web Scraping, Full Stack, Frontend, Backend, NLP, SDLC, Machine Learning, UI, Computer Vision