

# 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

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% reduction in lambda costs**
- 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

### Reinsurance Group of America

Remote

*Software Engineer Intern | Actuarial Solutions*

Jun 2023 - Aug 2023

- 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 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
- Integrated Redux with React web platform, streamlining developer environment and code maintainability

### Codeday Labs

Remote

*Intern | Software Engineering*

Jun 2022 - Aug 2022

- Built web scraper using Selenium to extract data from Google News, automatically populating MongoDB database with 1000+ entries. Implemented sentiment analysis and NLP processes to calculate investment risk
- Designed UI and utilized pyQT to create interactive interface for seamless user experience

### 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 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

## Skills

- Languages: Python, JavaScript, C, C++, Java, SQL, TypeScript, Rust
- Front-end: 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, Scikit-Learn, Heroku, NumPy, Pandas, MERN, SDLC