Kenny Chen

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EDUCATION

University of California, Irvine **Expected December 2025**
Master of Software Engineering – GPA 4.00

University of California, Riverside **June 2023**
Bachelor of Computer Science (Cum Laude) – GPA 3.74

SKILLS

Programming Languages: Python, Java, JavaScript, TypeScript, C++, C#, SQL
Tools and Frameworks: AWS, Docker, React.js, Next.js, Vue.js, Node.js, JUnit, Git, Visual Studio, Unity, Webpack

EXPERIENCE

Amazon Web Services *Seattle, WA* **June 2025 – September 2025**
Software Development Engineer Intern

- Designed a new benchmarking system for the ELB Runtime Service by containerizing the existing framework with AWS CDK, ECS Fargate, and Lambda, enabling test configuration through JSON files.
- Reduced benchmarking processing time by 92%, decreasing the duration from 20 days to less than 2 days by supporting parallel execution of instance type and traffic profile combinations.
- Developed two CloudWatch dashboards to improve system monitoring, providing engineers with real time test metadata, ELB performance metrics, and dependency health for faster troubleshooting.
- Automated manual performance analysis workflow by integrating Python notebooks, Lambda, and S3, generating scaling thresholds, LCU calculations, and visualization reports that reduced the time needed to create and update scaling policies.

c:geo – Open Source Geocaching App *Remote* **May 2025 – June 2025**
Contributor

- Contributed 5 pull requests to this open source Android project, delivering new features, bug fixes, and test coverage improvements while collaborating with maintainers through code review and issue tracking.
- Developed a dynamic compass feature for the cache detail screen using Java and Android UI components, replacing a static icon with a rotating compass and providing a user setting to toggle direction display.
- Implemented a Snackbar share option for log visits, enabling quick sharing of cache logs with contextual prefixes for log types.

University of California, Riverside – Bit Securer Lab *Riverside, CA* **April 2023 – June 2024**
Research Intern

- Developed a new force directed graph visualization feature using JavaScript into an online disassembler, enabling analysis of call graphs with support for 1,000+ nodes and edges.
- Streamlined the binary analysis pipeline by refactoring a shell script into a Python based execution system and implemented API in TypeScript for file submissions, enabling automated decompilation through Ghidra's headless analyzer.
- Integrated the API with a Vue.js front end, enabling interactive graph visualization by dynamically fetching and displaying decompiled call graphs, providing researchers with an intuitive interface for analyzing relationships between functions.

PROJECT EXPERIENCE

DataLake GUI - UC Irvine Office of Information Technology **December 2025**

- Designed and implemented an AWS hosted React GUI connected to backend services through API Gateway and Lambda, enabling OIT engineers to retrieve and update configuration files stored in S3 and DynamoDB through secure web interactions that replaced manual JSON editing.
- Implemented SSO authentication using AWS Cognito with OAuth 2.0 integration to UCI Shibboleth, providing secure institutional login and access control for users.
- Deployed the application with AWS Amplify, using automated CI/CD and serverless hosting to reduce maintenance effort and ensure consistency with OIT's Terraform infrastructure.

Mail Sync **December 2024**

- Built a full stack email client server application using Node.js, Express.js, and TypeScript, implementing RESTful APIs with IMAP and SMTP protocols to handle email retrieval and sending, and contact management.
- Designed a user interface with React and Material UI, using a global state management system to keep data synchronized across components and trigger real time updates when retrieving or sending emails.

Preop Education App **October 2024**

- Collaborated with a cross-functional team to design and develop "OpReady," a Preoperative Education App aimed at improving patient preparation before surgeries that won 3rd place at the MedTech Innovation Hackathon.
- Built the frontend with Next.js and Tailwind CSS, integrating it with backend Strapi APIs to dynamically fetch and display patient education materials through a responsive, component-based UI.