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.

Revature *Remote* **August 2023 – November 2023**
Backend Developer Training Program

- Developed 5+ RESTful API endpoints in Java using Spring Boot to implement user registration, login, and CRUD operations for messages, addressing 8 user stories while following MVC principles to keep the code modular and maintainable.
- Built a robust data layer in Java using JDBC with DAO patterns, prepared statements, and connection pooling to improve query performance and prevent SQL injection; validated functionality with JUnit tests achieving 88% line coverage.

PROJECT EXPERIENCE

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.
- Designed and the front end of the application using Next.js and integrated styling with Tailwind CSS, delivering a modern component-based UI design and responsive user interface.
- Implemented connections between the frontend and backend APIs, ensuring seamless interaction with the content management system Strapi and other backend services to dynamically fetch and display patient education materials.