Kenny Chen

Riverside, CA 92505 | 626-559-9456 | kennygchen@yahoo.com | LinkedIn | GitHub

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 the performance analysis workflow by integrating Python notebooks, Lambda, and S3, generating scaling thresholds, LCU calculations, metric visualizations, scaling policy without manual intervention.

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.