Rachel Kao

909-764-1888 | rachelsingkao@gmail.com | linkedin.com/in/rachel-kao-312g | github.com/rkao2

EDUCATION

University of California, Irvine

Irvine, CA

Bachelor of Science, Major in Computer Science

Expected - June 2026

Mt. San Antonio College

Walnut, CA

General Education

May 2022 - May 2024

Experience

Software Engineer Intern

June 2025 - Present

July 2024 – April 2025

BAE Systems Inc.

San Diego, CA

- Developed a Satellite List Service prototype in Quarkus to evaluate it against Spring Boot, replicating and extending core API functionality for future native executable deployment
- Delivered production-ready features using Kafka, Elasticsearch, Quarkus, Docker, Gradle, Kubernetes, and Helm, improving data retrieval, system scalability, and service reliability
- Designed and deployed secure RESTful APIs with CRUD operations, integrating JSON Schemas, dependency injection, and authentication; implemented cloud-native deployment with Keycloak, OpenAPI/Swagger UI, and automated CI/CD pipelines using Gradle and GitLab
- Co-led 15 interns in a 3-week fundraising initiative, raising \$3,000 to purchase bicycles for donation to military families

Tech Fellow

Remote

Codepath• Leading a 10-week course for 200+ students, facilitating students in small groups of 4-6 through technical assignments covering React.js, JavaScript, using publicly available APIs, and CRUD operations

- Provided 1:1 support to students by resolving any technical questions or problems with their assignments
- Collaborating with fellow instructors to continuously improve the course curriculum and enhance the learning experience for students, resulting in a 15% improvement in student project quality and positive feedback from 80% of participants

Teacher Sep 2022 – Sep 2024

School Connection

Walnut, CA

- Tutored 20+ students grades K-9 in math, English, science, and social studies, adapting to their individual learning
- Taught a 15-week math course for 10+ 5th-grade students, preparing their readiness for the 6th-grade math curriculum
- Supported classroom instruction by grading 100+ assignments and exams, while also preparing study guides and review materials for upcoming exams

Projects

Care Voice | Deepl, Groq (Whisper AI, Meta Llama 70B), Eleven Labs

June 2024

- Built a full-stack medical translator mobile app to bridge communication gaps between doctors and patients
- Integrated Whisper AI and Meta Llama 70B via Groq for real-time language translation and natural language processing
- Utilized Deepl and Eleven Labs for accurate translation and high-quality speech synthesis

Good Eats | Google Gemini, MySQL, Flask, Python, React, Material UI

April 2024

- Developed a full-stack web app leveraging Gemini AI to generate curated meal options with detailed nutritional facts
- Implemented backend with Flask and MySQL for data handling and storage
- Designed responsive UI using React and Material UI for user-friendly meal selection experience

Technical Skills

Languages: C++, Java, JavaScript, Python, Swift, SQL (Postgres, MySQL), HTML, CSS

Frameworks & Libraries: React, Node.js, Flask, FastAPI, Material-UI, Bootstrap, Tailwind, NumPy, Quarkus

Databases & Tools: MongoDB, MySQL, Elasticsearch, Kafka, Kafdrop

Developer Tools & Platforms: Git, GitLab CI/CD, Docker, Helm, Kubernetes, Gradle, VS Code, IntelliJ, Eclipse, Jupyter Notebook, Xcode