

Seyoung Oh

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WORK EXPERIENCES

Software Engineering Intern - KQED

San Francisco, CA

Jul 2025 - Present

- Auditing API endpoints across multiple services in a **microservices (MSA)** environment for refactoring old services
- Deprecated unused RESTful endpoints in a **Spring Boot** and **MongoDB/Firebase** services deployed on **Docker** and **Google Cloud Platform (GCP)**, achieving a 27% reduction in API surface area and simplifying system design.
- Resolved **IntelliJ** build configuration issues, cutting local build times by 55%, and documented solutions.

Application Engineer - JKI INC

Campbell, CA

Sep 2024 - Jan 2025

- Designed and implemented a **Shmoo testing framework** in **C++** to validate NAND flash memory performance, automating voltage and timing parameter analysis against vendor specifications.
- Discovered an additional 17% VCC power margin through systematic **performance validation**, enabling broader operational stability and extending device lifespan under varying power conditions.

Data Engineer Intern - JKI INC

Yongin-si, South Korea

Jul 2022 - Sep 2022

- Built an interactive temperature monitoring dashboard using **Plotly Python** to visualize and analyze post-testing log data, enabling efficient identification of thermal anomalies and improving debugging efficiency by 80%.
- Developed and automated a robust data pipeline with **NumPy** and **Pandas**, cleaning and analyzing 10K+ log entries.

PROJECTS & ACTIVITIES - More projects on github.com/driffe

Everyday Coffee Platform: Technical Lead

Jul 2025 - Present

- Developing a Coffee Platform with **RAG**-based Bean recommendation using **Spring Boot**, **MySQL**, and **Docker**.
- Collaborated with the marketing team to align technical solutions with business goals.

AWS MCP and A2A Hackathon: Backend Lead

May 2025

- Created AI Health Checker, an automated medication reminder for the elderly, providing voice-based assistance.
- Built with **Python Flask** backend, integrated **VAPI.ai** voice interface, **Claude AI**, and **Twilio** SMS automation.

SpartUpSJSU Hackathon: Awarded 5th Place

Apr 2025

- Developed AutoWise, an AI-powered car all-in-one platform integrating DIY repair services, shop locators, and fuel price tracker using **LLM API**, **Next.js**, **Mapbox API**, and deployed on **Netlify**.

SpartUp × SBDC Pitch Jam: Placed Top 10

Apr 2025

- Designed and pitched “MediTrek” startup, upgrading medication guide platform for international students and travelers, presenting revenue model with pharmacy partnership strategy.
- Improved medication guide with **in-memory caching** implementation that reduced API usage by 30%.

HackHayward Hackathon: Awarded Best Use of Perplexity/Sonar

Mar 2025

- Led a team of two to develop an AI-powered Medication Guide, creating a **RESTful API** with **FastAPI**, integrating **Perplexity** for recommendations, and adding a pharmacy locator with **Google Place API**, deployed on **Vercel**.

SKILLS

Languages: Java, C/C++, Python, JavaScript, TypeScript, SQL, HTML/CSS, TailwindCSS

Frameworks/Libraries: Spring Boot (JPA, JDBC, WebFlux), FastAPI, Next.js, Feathers.js, React Redux, Selenium

Databases/Tools: MySQL, MongoDB, Firebase, Git, Postman, Jira, Confluence

Deployments: Docker, Google Cloud Platform, AWS(IAM, S3, EC2), Vercel, Netlify

EDUCATION

San Jose State University

B.S. Software Engineering

San Jose, CA

Expected Dec 2025