

# Seyoung Oh

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## WORK EXPERIENCES

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### Software Engineering Intern - KQED

San Francisco, CA

Jul 2025 - Present

- Reduced API surface area by 27% through systematic audits and deprecation of unused endpoints in **Spring Boot(Webflux)** and **MongoDB/firebase** within a microservices architecture (**MSA**) environment on **Docker/GCP**.
- Improved developer build times by 55% through resolving **IntelliJ** configuration issues, enabling local development and documenting solutions for team productivity.

### Application Engineer - JKI INC

Campbell, CA

Sep 2024 - Jan 2025

- Designed and implemented a **Shmoo testing framework** in **C++** for NAND flash memory validation, 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 analyze post-testing log data, enabling efficient identification of thermal anomalies and reducing debugging time by 80%.
- Developed and automated a robust data pipeline with **NumPy** and **Pandas**, cleaning and analyzing 10K+ log entries.

## PROJECTS - More projects on [github.com/driffe](https://github.com/driffe)

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### Everyday Coffee Platform - Technical Lead

Apr 2025 - Present

- Developing a coffee platform using **Java Spring Boot** and **MySQL** for a **RAG**-based coffee recommendation system.
- Containerizing services with **Docker** and deploying on **AWS** for scalability and reliability.

### Medication Guide - Team Lead

Mar 2025 - Apr 2025

- Built an AI-powered medication recommendation system using **FastAPI** and **Perplexity API**, deployed on **Vercel**.
- Won “Best Use of Perplexity/Sonar” among 40+ teams and pitched an upgraded prototype at the SBDC Pitch Jam.

## SKILLS

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

**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

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**San Jose State University**

San Jose, CA

*B.S. Software Engineering*

Expected Dec 2025

## LEADERSHIP & ACTIVITIES

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### 2x Hackathon Winner & Startup Pitch Jam

Mar 2025 - Apr 2025

- Led team of two and awarded “Best Use of Perplexity/Sonar” at HackHayward with AI Medication Guide site.
- Placed Top 5 at SpartUp Hackathon by developing an AI-powered car all-in one site for repairs, shops, and fuel prices.
- Placed Top 10 at SpartUp × SBDC Pitch Jam by delivering a startup pitch with a prototype of AI Medication Guide.

### Programming Tutor - Kim Study

Apr 2024 - Jul 2024

- Guided a student to acceptance into a gifted program through 10+ custom projects with blocking coding (Micro:bit).

### IT Specialist - Korea Army

Oct 2022 - Apr 2024

- Maintained Unix-based servers with 98% uptime and resolved 5+ hardware/software/network issues per day.