

Seyoung Oh

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WORK EXPERIENCES

Software Engineering Intern - KQED

San Francisco, CA

Jul 2025 - Present

- Refactoring legacy backend services in **Spring Boot(Webflux)** and **MongoDB/Firebase** applications by auditing REST APIs using **Postman** within a microservices architecture (**MSA**) environment using **Docker** and **GCP**

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

IT Specialist (Sergeant) - Republic Of Korea Army

Goseong-gun, South Korea

Oct 2022 - Apr 2024

- Conducted daily server and database inspections using **PuTTY** and **Unix** to ensure data integrity and server stability by monitoring performance and implementing optimizations, successfully maintaining 98% data stability and connectivity
- Diagnosed **hardware, software, and network** issues affecting military systems at the Class III Security Office, and troubleshooted and resolved at least 5 issues per day.

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 processing pipeline with **NumPy** and **Pandas**, cleaning and analyzing 10,000+ device log entries to pinpoint failure points and optimize testing procedures

PROJECTS - More projects on github.com/driffe

Medication Guide - Full Stack

Mar 2025 - Apr 2025

- Built an AI-powered medication recommendation website using **FastAPI** and **Perplexity API**, deployed on **Vercel** with structured prompt engineering to generate formatted medical advice based on user symptoms and allergies, earning "Best Use of Perplexity/Sonar" award among 40+ teams at HackHayward

SKILLS

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

Frameworks/Libraries: Spring Boot (JPA, JDBC, WebFlux), FastAPI, Next.js, React, Plotly, NumPy, Pandas

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

San Jose, CA

B.S. Software Engineering

Expected Dec 2025

EXTRACURRICULAR ACTIVITIES

- SpartUpSJSU Hackathon: Awarded 5th Place Apr 2025
- SpartUp × SBDC Pitch Jam: Placed Top 10 Apr 2025
- HackHayward Hackathon: Awarded Best Use of Perplexity/Sonar Mar 2025
- Programming Tutor Apr 2024 - Jul 2024