

Seyoung Oh

San Jose, CA | 408-304-8254 | syoh2k@gmail.com | [linkedin.com/in/syoh2k/](https://www.linkedin.com/in/syoh2k/) | F-1 STEM OPT

WORK EXPERIENCES

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.

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 pipeline with **NumPy** and **Pandas**, cleaning and analyzing 10K+ log entries.

PROJECTS - More projects on github.com/driffe

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

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

AWARDS & RECOGNITION

- 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
- ROK/US Joint Exercise: III Corps General's Commendation Mar 2024