

Seyoung Oh

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EDUCATION

Software Engineering (B.S.) - San Jose State University

Expected Dec 2025

Relevant Coursework: Parallel Processing, Programming Languages, Object-Oriented Design, Enterprise Software, Database Management Systems, Data Structures and Algorithms, Operating Systems, Computer Networks & Security

SKILLS

Languages: Java, C/C++, Python, Javascript, Typescript, SQL, HTML, Racket, PHP

Frameworks & Database: Spring Boot, FastAPI, Next.js, React.js, Node.js, MySQL, Firebase, PostgreSQL

Data & Analytics: SQL/NoSQL, NumPy, Pandas, Plotly

EXPERIENCES

Application Engineer - JKI INC

Campbell, CA

Sep 2024 - Jan 2025

- Developed Shmoo testing framework in **C++** for NAND flash memory performance verification that identified additional 17% VCC power operational margins, expanding device functionality beyond documented specifications
- Optimized critical memory timing operations, reducing timing operations up to 50% while maintaining data integrity, achieving 80% alignment with vendor-specified timing and operation patterns

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

- Created visualization dashboards using **Plotly Python**, cutting review time by 85% compared to manual log inspection
- Built a Python data processing pipeline with **NumPy and Pandas** to detect critical temperature from Burn-in boards
- Automated data analysis of 10,000+ log entries, reducing manual analysis time and improving detection accuracy

PROJECTS - More projects on github.com/driffe

Medication Guide - Full Stack

Mar 2025 - Current

- Developed Medication Recommending Web Application integrating AI services with **Python FastAPI** backend and **HTML/CSS/JS** frontend that won "Best Use of Perplexity/Sonar" among 40+ teams

Event Management System - Backend role

Sep 2024 - Dec 2024

- Developed Event Management web application using **Java Spring Boot** and **MySQL** with **RESTful** architecture
- Implemented secure **CRUD API** endpoints with transaction management for scheduling and ticket system

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