

Seyoung Oh

San Jose, CA | 408-304-8254 | syoh2k@gmail.com | linkedin.com/in/syoh2k/

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, Prolog, Ruby

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

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 memory timing operations by up to 50% while maintaining data integrity, achieving 80% alignment with vendor-specified timing and operation patterns

Programming Tutor - Kim Study

Seoul, South Korea

Apr 2024 - July 2024

- Mentored students in programming, including **block coding, Python, and Java**, through personalized instruction
- Guided one student to successful acceptance into the Gifted and Talented Education Program through a comprehensive curriculum focusing on both creative and practical **Micro:bit** projects

Data Engineer Intern - JKI INC

Yongin-si, South Korea

Jul 2022 - Sep 2022

- Built a temperature visualization dashboard with **Plotly Python** to enhance monitoring and debugging Burn-in board
- Engineered an automated data processing pipeline and frame using **NumPy, Pandas** to scrape, clean, and analyze log data across multiple Burn-in boards, successfully handling over 10,000 log entries

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

Personal Money Tracker - Full Stack

Nov 2023 - Feb 2024

- Developed a responsive finance application with **Next.js** and **Firebase**, implementing secure **OAuth** authentication while designing a NoSQL database schema with Firestore security rules

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
- Republic Of Korea Army: IT Specialist Oct 2022 - Apr 2024