

# Seyoung Oh

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## EDUCATION

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**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 Structure and Algorithm, Operation Systems, Computer Network & Security

## SKILLS

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

**Technical Skills:** Spring boot, Java Swing, Firebase, MySQL, React.js, Next.js, NumPy, Pandas, Plotly, UNIX, Linux, CSS/TailwindCSS, Github, Jira, Trello, Figma, Visual Studio Code, IntelliJ, Eclipse, Orb, UTM, Ubuntu

## EXPERIENCES

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**Field Application Engineer** - JKI INC

Campbell, CA

Sep 2024 - Jan 2025

- Implemented a Shmoo testing framework of Erase Operation in C++ to verify performance against vendor datasheet.
- Utilized the Program and Read operations for precise performance verification, identifying 17% more VCC power operational margin than documented in the vendor's datasheet specifications.
- Reconstructed memory operation timing to align with the vendor-specific NAND flash specification.
- Implemented missing timing operations and optimized existing ones by reducing them up to 50% based on the vendor's datasheet, achieving 80% alignment with the timing and operation patterns specified in the vendor's datasheet.

**Private Programming Tutor** - Self-Employed

Yongin-si, South Korea

Apr 2024 - July 2024

- Mentored students to get basic coding skills (Micro:bit coding, Python, and Java) and logical thinking abilities, resulting in one of the students gaining acceptance into the Gifted and Talented Education Program.

**IT Specialist (Sergeant)** - Republic Of Korea Army

Goseong-gun, South Korea

Oct 2022 - Apr 2024

- Diagnosed hardware, software, and network issues affecting military systems at the Class III Security Office, troubleshooting and resolving at least 5 issues per day.
- Conducted daily 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.
- Executed security audits on over 100 IT devices every quarter to evaluate both software and hardware aspects to identify potential vulnerabilities and provide solutions, successfully maintaining a security stability rate above 90%.
- Participated in the Freedom Shield exercise, a joint operation conducted by the United States and South Korea, and managed IT operations in a high-pressure environment, earning the III Corps Commanding General's Commendation.

**Software Engineer Intern** - JKI INC

Yongin-si, South Korea

Jul 2022 - Sep 2022

- Implemented temperature analysis and visualization program to analyze temperature in Burn-in boards.
- Engineered automated data processing pipeline and frame using Python (NumPy, Pandas) to scrape, clean, and analyze log data across multiple Burn-in boards and implemented an interactive visualization system with Plotly, successfully handling and analyzing over 10,000 log entries.

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

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**Medication Guide** - Build with AI: HackHayward Hackathon

- Built a Medication Guide web application, winning the "Best Use of Perplexity/Sonar" award among about 40 teams.
- Implemented full-stack architecture using vanilla JavaScript, HTML/CSS for frontend, Python FastAPI for backend, integrating Perplexity AI for medication recommendations and Google Places API for pharmacy location services.