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 Structure and Algorithm, Operation Systems, Computer Network & Security

SKILLS

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

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.

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

Medication Guide

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

Event Management System

- Built an event management system utilizing SQL database, and engineering backend infrastructure with Spring Boot and JDBC template to implement CRUD operations for event scheduling and ticket system.

Personal Money Tracker

- Built a personalized expense manager in Next.js to gain hands-on experience with NOSQL databases, successfully implementing secure OAuth authentication flow and designing Firestore database schema with security rules.

EXTRACURRICULAR ACTIVITIES

- Awarded Best Use of Perplexity/Sonar at HackHayward Hackathon for developing AI Medication Guide, Mar 2025
- Military Serve as IT Specialist in South Korea, Oct 2022 - Apr 2024
  - III Corps Commanding General's Commendation – ROK-U.S. Joint Military Exercise FS 24
- Private Programming Tutor, Apr 2024 - Jul 2024