Minjay Jo

Computer Engineering | AI Agent Systems | Software Engineering
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Education

University of Washington, Paul G. Allen School *Seattle, WA*
B.S. Computer Engineering, expected May 2027 *Aug. 2024 – Present*
Korea Advanced Institute of Science and Technology (KAIST) *Daejeon, South Korea*
Exchange Student *2026*

Technical Skills

Languages: Python, Java, C/C++, TypeScript, JavaScript, SQL, Kotlin
AI and software: Azure AI Foundry, Azure OpenAI, FastAPI, Flask, React, Node.js, SQLite, Docker, Git, Linux
Certifications: MTA: Introduction to Programming Using Java (2022); Cisco Networking Academy: CCNA: Introduction to Networks; CCNA: Switching, Routing, and Wireless Essentials; Introduction to Cybersecurity

Experience

Technology Operations Intern *Seattle, WA*
Lakeside School *Aug. 2025 – Aug. 2026*
- Built and deployed a JavaScript/SQL application for attendance and inventory, reducing manual tracking time by 60–70%.
- Designed relational data for users, resources, and operational records; mentored 20+ students in the makerspace.

Research Software Developer, Digital Diary GitHub *Seattle, WA*
University of Washington Research Team *2024 – Present*
- Built capture and scrapbook workflows for long-distance partners to create and revisit shared digital artifacts, supporting a study of technology-mediated connection.
- Implemented screenshot and audio capture, tagging, retrieval, and media synchronization across an Electron/React desktop client and Flask/SQLite backend.
- Documented the prototype's architecture and features for an ACM TOCHI manuscript in preparation.

Software Engineering Intern *Seattle, WA*
Expedia Group *Feb. 2023 – Jun. 2023*
- Built responsive HTML/CSS components for production web interfaces, adapting layouts across screen sizes and improving usability.
- Worked with cross-functional teammates in Agile code reviews and design discussions to refine accessibility and interface behavior.

Electrical Engineering Intern *Daegu, South Korea*
Kyungpook National University *Sep. 2022 – Jun. 2023*
- Processed battery-management-system current and voltage datasets with Python, Pandas, and NumPy to analyze charging behavior.
- Visualized charging trends and identified battery performance patterns for the research team.

Selected Projects

Hermes AI Operations Platform *WSL2, Azure OpenAI, Discord/Telegram*
- Built a self-hosted WSL2 agent platform with 10 isolated profiles, Azure model routing, and Discord/Telegram control surfaces.
- Scheduled 20+ workflows for inbox triage, planning, career tasks, and paper-trading research, with human approval for sensitive actions.

Microgreen Computer Vision Research GitHub *Aug. 2025 – Present*
- Built a Python/OpenCV pipeline to distinguish microgreen mold from root hairs using HOG and edge features; trained a scikit-learn k-NN classifier for early detection.

Campus Paths Web Application *TypeScript, React, Node.js*
- Built an interactive campus map and route visualization; implemented Dijkstra's algorithm with a custom priority queue for shortest paths.

Poker Coach GitHub *Python, FastAPI, SQLite*
- Built a local-first coaching app with deterministic hand tracking, player statistics, on-demand Hold'em analysis, and a separate PLO5 equity study.

MycoRipple Storefront *Python, JavaScript, SQLite*
- Built an inventory-backed storefront and order API with SQLite persistence and reviewable fulfillment email drafts.

Progression Timer GitHub *Kotlin, Jetpack Compose, Room*
- Built an Android timer with saved activity records, event-specific bests, and Canvas charts to show progress over time.

Card Count Lab GitHub *JavaScript, Web Workers, Python*
- Built parallel blackjack simulations for betting-spread search and stress tests, with bookmarkable local result snapshots.