

Jay Lim

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TECHNICAL SKILLS

Languages

C, Python
JavaScript
JDBC/MySQL

OS & Software

Linux
Windows 8
MS Word/Excel/PowerPoint

Interests

Server Management
Problem Solving
Data Structures and Algorithms

PROFESSIONAL EXPERIENCE

Shinyoung Securities Co., Ltd. (<https://bit.ly/3GPWzqY>)

Seoul, Korea

Site Reliability Engineer (work through H2O)

May. 2022 – Nov. 2022

- Maintained the MCI (Multi Channel Interface) network system managing client access, stock orders, and quote inquiries.
- Developed a shell script analyzing log client access, reducing the search steps from 4 to 1 and search times by 25%; devised load generators to send tpccall to OLTP (Online Transaction Processing) & link clients to the MCI system via TCP connect; analyzed TPS results.
- Developed/tested new transactions requiring personal info inquiries after validating public certificates; solved errors occurred during the GDB testing.
- Development Skills: Linux bash/shell scripting, Socket (TCP/UDP/IP) programming, multithreading programming
- Tools: Linux Commands (ex. crontab, ps, netstat, gdb, strace, ipcs)

Yuanta Securities Co., Ltd. (<https://bit.ly/41xyfBX>)

Seoul, Korea

Java Backend Engineer (work through H2O)

Feb. 2022 – Apr. 2022

- Upgraded the Java framework in the middleware to version 8 using Eclipse; tested & debugged the framework.
- Drew a functional processing flow diagram and detailed description documents using MS Office.
- Reduced compilation time by 75% by developing options to compile only edited or added sources and commit them to the SCM (Software Configuration Management) system.

H2O System Technology Co., Ltd. (<https://bit.ly/3AbInVi>)

Seoul, Korea

Middleware Backend Engineer (affiliated with Yuanta & Shinyoung Securities)

Jul. 2021 – Jan. 2022

- Established a Commodity Trading HTS platform for business owners using C, JavaScript, and MySQL.
- Formulated an HTS UI/UX to use JavaScript with the company's own internal software coded in C++.
- Developed transaction services that declared database I/O and queries using C.
- Formed tables in MariaDB using MySQL Workbench and inserted data information such as client users, products, addresses.
- Created and inserted queries into transaction services for the operating system; reduced query times to find addresses; from 9 seconds to <1 second.

EDUCATION

Hansung University

Seoul, Korea

Bachelor of IT Convergence Engineering – Major in Artificial Intelligent Systems

Mar. 2015 – Feb. 2022

TECHNICAL PROJECTS

Hansung University

Seoul, Korea

Senior Engineering Capstone Project

Mar. 2021 – Jun. 2021

- Created a smart farming system to auto detect ripened cherry tomatoes and harvest them with a robotic.
- Crawled cherry tomato images, labelling them through JavaScript and Python code programming.
- Imported TensorFlow and OpenCV using Python to train the AI module through a webcam.
- Constructed Python code by importing Pyfirmata that controlled Arduino in a Windows environment.

Hansung Engineering Competition Contest

Jul. 2019 – Sept. 2019

- Using an AI module and 3D printer, trained a vehicle to collect and dispose empty aluminum cans.
- Took 20 hours using a webcam and joystick to train the vehicle to automatically pick up and dispose the cans.

WORK VISA

Canada Working Holiday Visa – Open Work Permit

REFERENCES

- Jong-Soo Kim, IT Supervisor at H2O, kimjongsoo@h2osystech.com (see attached letter)
- Sang-Won Park, IT Supervisor at H2O, parksw@h2osystech.com (see attached letter)