Geonwoo Lee

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EDUCATION

University of North Carolina at Charlotte   NC, US | Aug 2025 - Present
- Master of Science in Computer Science
- **Coursework:** Introduction to Machine learning, Database Systems, Algorithm & Data Structures, Data Mining

Eulji University   Seongnam, South Korea | Feb 2016 - Feb 2022
- Bachelor of Medical IT and Marketing (Minor in Silver Care Start-ups)
- **Coursework:** Computer algorithm, Medical Image Processing, Data Structure, Software Engineering, Practice of Data Analysis, Database, Mathematics
- **Awards:** Department Highest Academic Scholarship (2021), Academic Excellence Scholarship (2021), Excellence in Club Activities Award, Eulji University (2021)

Leave of Absence   Anyang, South Korea | Jan 2017 - Oct 2018
- Completed mandatory military service and was honorably discharged as a Sergeant.

RESEARCH EXPERIENCES

Undergraduate Researcher, Eulji University   Seongnam, South Korea | Oct 2019 - Nov 2020
- Adviser: Professor Ki-Young Lee, Eulji University
- Conducted a research project titled *"A Study on Automatic Reporting of Vehicle Accident Sensors"* to develop a real-time accident reporting system for improving emergency response in vehicle collisions where drivers are unable due to physical or mental impairment.
- Developed an MCU-based sensor integration system that detects severe vehicle collisions through temperature, humidity, GPS, and Wi-Fi signal analysis, enabling automated reporting to the nearest fire station.
- Proposed solutions that are expected to reduce fatalities and injuries by enabling faster intervention in accidents.

WORK EXPERIENCES

Full-stack Developer, GEOTWO Co., Ltd   Gyeonggi, South Korea | Jul 2022 - May 2023
- Designed and developed web-based applications, integrating front-end and back-end systems to deliver user-friendly and high-performing software solutions.
- Collaborated with cross-functional teams to ensure alignment with project goals and user requirements, adhering to industry best practices in development.

Key Project 1. QA Web Application Project (Sep 2022 – Apr 2023)
- **Objective:** Develop a QA platform to streamline user support by enabling features to submit inquiries, ask questions, and make requests.
- **Details:** Implemented the front-end using React, TypeScript, jQuery, and Semantic UI and integrated it with a backend built on Java and Spring Boot while managing source code versions and team collaboration using SVN.

Key Project 2. Reference Web Tutorial Project (Jul 2022 – Aug 2022)
- **Objective:** Create an intuitive web-based reference tutorial to guide users in understanding the usage of proprietary products, including O2Platform, O2Map, and O2asis.
- **Details:** Developed tutorial pages leveraging JavaScript for asynchronous operations, enabling smoother data handling—refactored code and categorized example files using OpenLayers for better organization and usability.

IT Support Assistant, Won Architecture Co., Ltd   Gyeonggi, South Korea | Jul 2023 - Present
- Provided day-to-day technical assistance, including troubleshooting and support for internal users and office infrastructure.
- Maintained and updated internal databases to support business operations and record management.

PROFESSIONAL DEVELOPMENT

Java Android Web App Developer Program, Ezen IT Academy   Seoul, South Korea | Dec 2021 - Jun 2022

- Completed a 7-month program in Open API Utilization: Java Android Web App Development, with project-based training demonstrating full-cycle software development proficiency.
- Acquired foundational knowledge in Object-Oriented Programming (OOP) with Java while strengthening expertise in Data Structures and Algorithms.
- Gained hands-on experience as a full-stack developer, developing proficiency in VueJS, Spring Framework, and MySQL.

Key Project 1. Hey, Buddy (Collaboration Tool) Development (Apr 2022 – Jun 2022)
- **Objective:** As a full-stack developer and team leader, developed a remote collaboration tool to enhance non-face-to-face work systems in response to increased demand during the COVID-19 pandemic.
- **Backend Development & Server Management:** Engineered server-side logic with Spring Framework and MyBatis, deployed on Tomcat 9.0, and managed servers on AWS EC2 with CentOS 7 for stable and scalable operations.
- **Real-Time Video Conferencing Features:** Developed real-time video conferencing using WebRTC and integrated Zoom video chat API, improving team collaboration while managing version control through GitHub.

Key Project 2. Today's House Admin Bulletin Board System Development (Dec 2021 – Mar 2022)
- **Objective:** Served as a full-stack developer to develop an admin bulletin board system, enhancing the user experience and platform functionality.
- **Full-Stack Development:** Leveraged Spring Framework and Bootstrap to create a responsive front-end and back-end interface while using MySQL to facilitate the features, including user authentication, file uploads, and data validation.
- **API Integration:** Enhanced platform functionality by integrating external APIs like Daum Map API, Kakao Geolocation API, and social login APIs (e.g., Kakao, Facebook, Google, Naver).

EXTRACURRICULAR ACTIVITIES

Tutoring Program, Eulji University   Seongnam, South Korea | Apr 2023 - May 2023
- Served as a tutor, mentoring Medical IT students on the role and responsibilities of full-stack developers and delivering lectures while enhancing students' practical skills through Q&A sessions.

Coding Club, Eulji University   Seongnam, South Korea | Mar 2021 - Feb 2022
- Led a *Digital Currency Mining Game Development project* using C# as a project leader, modernizing the classic Pacman game with updated aesthetics and gameplay.
- Designed core game mechanics and managed project planning, production, and team collaboration, delivering the project on time with enhanced user engagement features.

Job Shadowing Program and Language Training, University of Hawaii   West Oahu, US | Jan 2020 - Feb 2020
- Gained firsthand experience observing a full-stack developer's daily responsibilities, offering insights into Western work culture and development methodologies.

SKILLS

- **Programming Languages:** Java, JavaScript, Python
- **Database Systems:** MySQL, PostgreSQL, Oracle
- **Operating Systems:** Linux, Windows
- **Tools & Frameworks:** Git, AWS, Spring Boot, OpenLayers
- **Language:** Korean (Native), English (Proficient) - TOEFL iBT 79