

# Geonwoo Lee

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## EDUCATION

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### Eulji University

Seongnam, South Korea | Feb 2016 - Feb 2022

- Bachelor of Medical IT and Marketing (Minor in Silver Care Start-ups)
- **GPA:** 3.32 / 4.50 (86.51 / 100)
- **Relevant 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)

## RESEARCH EXPERIENCES

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### Undergraduate Researcher, Eulji University

Seongnam, South Korea | Feb 2016 - Feb 2022

- 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

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### Full-stack Developer, GEOTWO Co., Ltd

Seoul, South Korea | Jul 2022 - Apr 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.

## PROFESSIONAL DEVELOPMENT

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### 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 Boot, 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

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#### **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.

#### **Tutoring Program, Eulji University** Seongnam, South Korea | Jan 2020 - Feb 2020

- 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 | Jan 2020 - Feb 2020

- 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.

### SKILLS

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- **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