Geonwoo Lee

Charlotte, NC, USA
September 25, 2025

EDUCATION

- **University of North Carolina at Charlotte** — Charlotte, NC, USA
  Master of Science in Computer Science — *Aug 2025 – May 2027*
  - Coursework: Introduction to Machine Learning, Artificial Intelligence, Database Systems

- **Eulji University** — Seongnam, South Korea
  Bachelor of Medical IT and Marketing (Minor in Silver Care Start-ups) — *Feb 2016 – Feb 2022*
  - 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 (2021)

RESEARCH EXPERIENCES

- **Undergraduate Researcher, Eulji University (Prof: Ki-Young Lee)** — Seongnam, South Korea
  A Study on Automatic Reporting of Vehicle Accident Sensors — *Oct 2019 – Nov 2020*
  - Developed an MCU-based sensor integration system detecting severe collisions via temperature, humidity, GPS, and Wi-Fi analysis to enable automated reporting to the nearest fire station.
  - Aimed to reduce fatalities and injuries through faster emergency intervention in driver-incapacitated collisions.

WORK EXPERIENCES

- **GEOTWO Co., Ltd (Full-time)** — Gyeonggi, South Korea
  Full-stack Developer — *Jul 2022 – May 2023*
  - Designed and developed web applications integrating front-end and back-end systems for performant, user-friendly solutions.
  - Collaborated with cross-functional teams, aligning with project goals and user requirements.
  - **Key Project 1: QA Web Application** — *Sep 2022 – Apr 2023*
    Front end with React, TypeScript, jQuery, Semantic UI; back end with Java/Spring Boot; version control and team collaboration with SVN.
  - **Key Project 2: Reference Web Tutorial** — *Jul 2022 – Aug 2022*
    Built tutorials for O2Platform, O2Map, O2asis; JavaScript async operations; refactoring and organization with OpenLayers.

PROFESSIONAL DEVELOPMENT

- **Java Android Web App Developer Program, (Ezen IT Academy)** — Seoul, South Korea
  Dec 2021 – Jun 2022
  - Completed a 7-month program on Open API Utilization: Java Android Web App Development with project-based training.
  - Built foundations in OOP (Java) and strengthened data structures and algorithms.
  - Gained full-stack experience with Vue.js, Spring Framework, and MySQL.
  - **Key Project 1: Hey, Buddy (Collaboration Tool)** — *Apr 2022 – Jun 2022*
    Team lead & full-stack; Spring & MyBatis on Tomcat 9.0; deployed on AWS EC2 (CentOS 7); implemented real-time video conferencing with WebRTC and Zoom API; version control via GitHub.

- o **Key Project 2: Today's House Admin BBS** *Dec 2021 – Mar 2022*
  Full-stack with Spring and Bootstrap; MySQL-backed features (auth, uploads, validation); integrated
  Daum Map, Kakao Geolocation, and social login APIs (Kakao, Facebook, Google, Naver).

EXTRACURRICULAR ACTIVITIES

- **CAIR AI Research Club (UNCC)** Charlotte, South Korea
  Regular Member *Sep 2025 – Present*
  - o Implemented a basic neural network using PyTorch, practicing how to code key parts like data scaling,
    the training loop, and predictions.
- **Eulji University Tutoring Program** Seongnam, South Korea
  Tutor *Apr 2023 – May 2023*
  - o Mentored Medical IT students on full-stack developer roles; delivered lectures and Q&A to enhance
    practical skills.
- **Coding Club (Eulji University)** Seongnam, South Korea
  Regular Member *Mar 2021 – Feb 2022*
  - o Led a Digital Currency Mining Game in C# (modernized Pac-Man) with updated aesthetics and
    gameplay; managed planning and collaboration.

SKILLS

- Programming: Java, JavaScript, Python
- Databases: MySQL, PostgreSQL, Oracle
- Operating Systems: Linux, Windows
- Tools & Frameworks: Git, AWS, SpringBoot, OpenLayers
- Languages: Korean (Native), English (Proficient)