

JI MIN LEE

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EDUCATION

GACHON UNIVERSITY

B.Eng. in Software Engineering

Seongnam, Korea

Sept. 2018 – Feb. 2024

- GPA: 4.13/4.5 Graduated *Cum Laude*
- Teaching Assistant, “Computer Networking (2022)” and “Object-oriented Programming (2022)”

RESEARCH INTERESTS

Human-Centered AI, Human-AI Interaction, Multimodal Recommendation Systems, Deep Learning (DL), Computer Vision

PUBLICATION

Lee, J.M., Cho, T.W. & Choi, A.J. “Research on Multimodal Music Recommendation System,” Intelligent Robotics & Autonomous System Control Lab, Gachon University, Seoul, Korea (*In Progress*).

PROFICIENCY IN SKILLS

Programming: JavaScript, Java, Python, (all advanced)

Cloud: Amazon AWS, Oracle Cloud

Web: React.js, Spring Framework

PROFESSIONAL EXPERIENCE

EMRO

Seoul, Korea

Full-Stack Engineer, AI business division

Sept. 2023 – Present

- Engineered and deployed an AI-powered solution using FastText (Word2Vec) and Spring Framework, delivering web services such as item similarity analysis and quote review features tailored to client design specifications/requirements.
- Architected and maintained CI/CD pipelines for seamless deployment in QA, PROD, and DEV environments across MS Azure and client on-premise infrastructures with a unified, compatible code for Oracle, MSSQL, PostgreSQL.

Irvine Tech Hub

Irvine, CA

AI Engineering Apprentice, Machine Learning Engineer

Jan. 2023 – Feb. 2023

- Constructed an AI-image-generating web notepad service for dyslexic patients and proposed a pitch deck as a virtual startup company, leading a group of 4 engineers.
- Trained ML models with PyTorch-based Fast.ai; finetuned stable diffusion models to convert written notes into images.
- Implemented model deployment through Hugging Face, enhancing the AI service’s accessibility and scalability.

GYMMON

Seongnam, Korea

Front-end Development Intern

Apr. 2022 – Sept. 2022

- Led the front-end development of React Native-based app “Fitcok” with 100% code contribution using Agile (Kanban, Jira, etc.), collaborating with back-end developers; implemented common modules for main services and admin pages.
- Organized/documented requirements for a community app; co-conceptualized screens and functions with designers.

RESEARCH EXPERIENCE

Intelligent Robotics & Autonomous System Control Lab, Gachon University

Seongnam, Korea

Undergraduate Research Intern (Advisor: Assoc. Prof. Andrew Jaeyong Choi)

Dec. 2022 – Feb. 2024

- Research multi-modal AI and drafted papers..

Pattern Recognition & ML Lab, Gachon University

Seongnam, Korea

Undergraduate Research Intern (Advisor: Prof. Sang-Woong Lee)

Sept. 2022 – Dec. 2022

- Calculated the similarity of personal dance movements and video performances using pose detection and DL methods.
- Developed and tested algorithms for pose estimation and movement similarity analysis.

PROJECT EXPERIENCE

Gachon-Kakao Enterprise S/W Engineer Academy

Software Architect Trainee

Seongnam, Korea

Mar. 2023 – Aug. 2023

“A-Log” – Project Lead, Front-end Developer

06/2023-08/2023

- Developed a web-based release note-sharing platform providing a collaborative environment for simultaneous team editing and sharing of release information, leading five students.
- Directed and produced UI/UX design using React and TypeScript; implemented real-time collaborative editing features.
- Architected microservices architecture (MSA) using Kubernetes and Docker; executed notification feature using Kafka.

“A-Form” – Project Lead, Front-end Developer

03/2023-06/2023

- Developed an AI-based automatic survey generator and result summarization platform on a cloud-native MSA system.
- Created UI/UX design, react project structuring, and demonstrated resource optimization.
- Tested performance and accessibility using Lighthouse, and components with Jest.

Gachon University Department of Software

Seongnam, Korea

“LDC” – Project Lead, Front-End Developer

Sep. 2022 – Feb. 2023

- Developed a React-, pose-estimating AI-based dance learning platform as a graduation project.
- Engineered data processing and evaluated/compared users’ dance videos frame-by-frame over original videos.

AWARDS & HONORS

Certificate of Outstanding Completion, Gachon University S/W Academy

Fall 2023

Academic Excellence Scholarship, National Software Talent Program (4 semesters)

Fall 2019 – Fall 2023

Academic Excellence Scholarship, Gachon University (4 semesters)

Fall 2018 – Fall 2023

Full-tuition Admissions Scholarship, Gachon University

Spring 2018

LEADERSHIP ACTIVITIES

Samil Church

Seoul, Korea

Cambodia Mission Preparation Committee Chair

Jul. 2022 – Present

- Orchestrated ~100 volunteers’ biannual mission trips to Cambodia, leading community outreach and humanitarian aid.
- Oversaw logistics such as fundraising, transportation, and local partnerships for impactful, successful trip executions.
- Designed and implemented cross-cultural training to prepare volunteers for effective mission work, emphasizing collaboration with local communities and sustainable support initiatives.

Team Leader, Youth Ministry

Nov. 2020 – Present

- Led and coordinated a team of 30-40 young adults, fostering community-building and spiritual growth through weekly meetings and events; organized and directed 10+ domestic mission trips to Jeju, Mokpo, and Tongyeong.
- Expanded the community from 17 members to 170+ through strategic outreach, leadership programs, and engagement.

Taiwan Mission Trip Team Member

Aug. 2017 – Aug. 2019

- Participated in three mission trips to Taiwan; served as a Mandarin interpreter for the team’s effective communication with local communities, contributing to outreach efforts and cross-cultural engagements.

ADDITIONAL INFORMATION

Military Service: Honorary Discharge as a Sergeant, Republic of Korea Army

Sep. 2019 – Mar. 2021

- Served in the 12th Aviation Group in Chuncheon as a systematic management soldier.
- Trained in the ROK Army Signal School and served as a squad leader for six months.

Volunteer:

- Taught ‘App Development Basics’ to Bundang Aram High School students in Seongnam.
- Educated senior citizens on cell phone use at xxx Welfare Center.

Fall 2018

Spring 2018

Languages: Korean (native proficiency), English (full professional proficiency), Mandarin Chinese (elementary fluency)