

Jaeyoung Lee

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EDUCATION

Georgia Institute of Technology

Bachelor of Science in Computer Science

Atlanta, Georgia

Expected Graduation: May 2023

GPA: 3.92/4.0 | Dean's List, Faculty Honors (5 semesters)

Concentration: Intelligence - Info/Internetworks

WORK EXPERIENCE

Samsung Electronics | Software Engineering Intern

June 2022 – August 2022

Mobile Experience Department, Store Client Part

- Detected memory leaks in Galaxy Store Android application and discovered edge cases in application rating functionalities by analyzing heap-dump generated with ADB shell.
- Developed a news location visualization and language-region setting UI for Samsung Free using Java and OneUI.

Georgia Institute of Technology | Teaching Assistant

January 2022 – Current

CS 2340 "Object and Design" - React.js, Android, and JavaFX

- Renovated the course website by implementing a Bootstrap-based UI structure and adding Domain Model diagrams.
- Promoted understanding of Agile methodologies and software design patterns (SOLID and GRASP) by providing weekly Q&A sessions and TA lectures for 600+ students.

Jaranda | Full-stack Web Developer

May 2020 – January 2022

Web Development Team

- Collaborated on the development of new systems including an online commerce service, Nest.js-based chatting server, and SMS verification system using Angular and Python for 300,000+ users.
- Refactored Angular module structure and reorganized front-end styling workflow by establishing a flex-rem-based responsive publishing structure, which resulted in a 36% reduction of quarterly publishing-related issues.
- Directed the "Activity Tag" project, a system that calculates hierarchical-Jaccard-distance among teachers, parents, and education programs, and developed an admin dashboard using GCP, Python-FastAPI, and Angular.
- Handled data extraction requests using BigQuery and SQL and managed a business KPI updating system backed by Python-Flask by implementing SQLAlchemy classes and query methods for 200+ live service database tables.

Naver D2 | Software Engineer Intern

May 2018 – August 2018

Campus Q Team

- Developed and launched a web application and a Facebook Messenger chatbot back-end for a forum-based question-answering platform using MERN stack (MongoDB, ExpressJS, ReactJS, and NodeJS).

PROJECTS / PROGRAMS

Google For Start-ups - Google Cloud Academy

April 2021 – June 2021

Program Participant

- Attended the GCP training program assisting start-ups in optimizing GCP-based development environment.
- Built an ETL process for the real-time matching request data (150+ requests per hour) using BigQuery and DataFlow and a visualization environment backed by DataStudio.

kor-string-similarity (npmjs.com/package/kor-string-similarity)

June 2018 – July 2018

Personal Project, NPM module

- Built a string-similarity module based on Sørensen–Dice coefficient and NphoEd (Normalized phoneme-based metric) to quantify the similarity between two strings and implemented sorting and threshold setting functionalities.

Trouble on Beryl Isle (vgdev.gtorg.gatech.edu/game/trouble-on-beryl-isle/)

January 2018 – May 2018

Game Software Developer, 3D Texture Artist

- Developed an action-adventure video game using Unity C# and conducted Closed Beta Test for 50+ students.
- Enriched game design by developing 3D components and textures, using Blender and Substance Painter.

LEADERSHIP / AWARDS

2018-2020 **Information Operations Officer & Corps Translator**, Republic of Korea Marine Corps

2019 **Nationwide Finalist**, Ministry of National Defense Open Data Idea Contest, 16 out of 300+ teams

2019 **Nationwide Finalist**, Ministry of National Defense S/W Competition, 50 out of 1000+ competitors

CERTIFICATES / SKILLS

Certificates **Google Cloud Platform Professional Cloud Architect**, Google Cloud Platform

Craftsman Information Processing Certificate, Ministry of Science and ICT of the Republic of Korea

HSK 4 (Chinese Proficiency Test), Ministry of Education of the People's Republic of China (Hanban)

Programming Python, Javascript, Typescript, Java, C, C++, HTML5, CSS3, SQL

Technologies GCP, Android, FastAPI, Firebase, Flask, NumPy, Pandas, Node.js, Angular, React, Vue, D3.js