

Jaeyoung Lee

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EDUCATION

Georgia Institute of Technology

Bachelor of Science in Computer Science; GPA: 3.92/4.0

Atlanta, Georgia

August 2017 - May 2023

Courses: Data Structures & Algorithms, Object and Design, Systems and Networks, Database Technologies, Machine Learning, Computer Vision

EXPERIENCE

Brooklyn Investment Group

Software Engineer

New York, NY

May 2023 – Current

- Implemented an audit log system for a service database averaging **20** write OPS, intercepting transaction requests into Lucid ORM and knex.js, and logging HTTP context and updates on the PostgreSQL Database.
- Engineered an ETL pipeline capable of validating and storing over **44,000** open tax lots data daily, leveraging Beam, SQS, and Lambda.
- Streamlined daily QA processes by devising a Cypress-based end-to-end test runner that tests and alerts 65 user stories, eliminating 1 hour of manual QA processes per day.
- Implemented a Python asynchronous data client to query and refine timeseries data for over **12,000** accounts and CUSIPs, improving the average response time for fetching historical performance data by **12%**.
- Collaborated with third-party developers to integrate new features into the Adonis.js backend and Vue.js frontend web application.

Samsung Electronics

Software Engineering Intern

Suwon, South Korea

June 2022 – August 2022

- Detected and rectified memory leaks in the Galaxy Store Android application, and identified edge cases in application rating functionalities through heap-dump analysis.
- Developed a news location visualization and language-region setting UI for the Samsung Free Android application using Java.

Georgia Institute of Technology, College of Computing

Teaching Assistant

Atlanta, GA

January 2022 – May 2023

- Promoted understanding of Agile methodologies and software design patterns (SOLID and GRASP) through weekly Q&A sessions and TA lectures for over **600** students.
- Led the renovation of the course website, leading a team of **4** teaching assistants and establishing a development system based on Ruby on Rails and Bootstrap UI.

Jaranda

Full-stack Software Engineer

Remote

May 2020 – March 2022

- Developed a WooCommerce-based online commerce service, a Nest.js-based chatting server, and an SMS verification system using Angular and Python-Flask to serve over **300,000** users.
- Implemented a UI error reporting system based on Sentry.io, resulting in a **36%** reduction in quarterly publishing-related issues.
- Directed the Activity Tag project, which calculates hierarchical Jaccard distance among teachers, parents, and education programs, and developed an admin dashboard that visualizes the similarity among entities using Python-FastAPI, Angular, and D3.js.

Naver D2

Software Engineer Intern

Seoul, South Korea

May 2018 – August 2018

- Developed a forum-based question-answering platform using the MERN stack (MongoDB, Express, React, and Node.js), and organized demonstrations at Seoul National University and Korea University, engaging over **300** students.

PROJECTS AND PROGRAMS

Google For Start-ups - Google Cloud Academy

April 2021 – June 2021

- Built an ETL process for real-time matching request data, handling over **150** requests per hour using BigQuery and DataFlow, and created a visualization dashboard supported by DataStudio.

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

June 2018 – July 2018

- Developed and published a string-similarity module utilizing the Sørensen–Dice coefficient and NphoEd (Normalized phoneme-based metric) to measure the similarity between two strings, accommodating alphanumeric characters and the Korean alphabet.

LEADERSHIP AND AWARD

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 AND SKILLS

Certificates

Google Cloud Platform Professional Cloud Architect, Google Cloud Platform

Languages

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

Frameworks

FastAPI, Flask, Django, NumPy, Pandas, Node.js, Angular, React, Vue, D3.js, RxJS, Adonis.js, Express.js, Nest.js

Platforms & Tools

GCP, AWS, Android, Docker, MySQL, PostgreSQL, SQLite, MongoDB, Firebase