Jaeyoung Lee

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EDUCATION

Georgia Institute of Technology   Atlanta, Georgia
Bachelor of Science in Computer Science; GPA: 3.92/4.0   *August 2017 - May 2023*
Courses: *Data Structures & Algorithms, Object and Design, Systems and Networks, Database Technologies, Machine Learning, Computer Vision*

EXPERIENCE

Brooklyn Investment Group/Skopos Labs   New York, NY
Software Engineering (Full-time)   *May 2023 – Current*
- Addressed technical debt by refactoring the investment restrictions system for individual accounts and implementing an asynchronous data client service that boosted the performance of the historical performance data endpoints by **80%**.
- Collaborated with third-party developers to integrate new features into the client-facing web application, including an account performance dashboard and a scheduler-based email notification system.

Samsung Electronics   Suwon, South Korea
Software Engineering Intern (Full-time)   *June 2022 – August 2022*
- 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, College of Computing   Atlanta, GA
Teaching Assistant (Part-time)   *January 2022 – May 2023*
- Promoted understanding of Agile methodologies and software design patterns (SOLID and GRASP) by providing weekly Q&A sessions and TA lectures for **600+** students.
- Renovated the course website by implementing a Bootstrap-based UI structure and adding Domain Model diagrams.

Jaranda   Remote
Full-stack Software Engineer (Full-time)   *May 2020 – March 2022*
- 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   Seoul, South Korea
Software Engineer Intern (Part-time)   *May 2018 – August 2018*
- 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 AND PROGRAMS

Google For Start-ups - Google Cloud Academy   *April 2021 – June 2021*
- 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*
- 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.

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