

SE JIN LEE

304 E 41st St, New York, NY 10017

✉ sl9339@nyu.edu

🌐 [linkedin.com/in/sejin-lee16](https://www.linkedin.com/in/sejin-lee16)

🐙 github.com/sjlee2016

Education

New York University

Sept. 2021 – May 2023

Masters of Science in Computer Science GPA : 3.727/4.0

New York, NY

Sogang University

March. 2016 – Feb 2021

Bachelor of Science in Computer Science

Seoul, Korea

Relevant Coursework

- Data Structures and Fundamental Algorithms
- Operating Systems
- Distributed Computing
- Natural Language Processing
- Artificial Intelligence
- Computer Architecture

Experience

JPMorgan Chase & Co

May 2023 – Now

Associate Software Engineer

New York, NY

- Build a new digital retail bank for the UK market under the International Consumer Banking organization at the firm
- Leverage Java Spring technologies to develop and maintain core banking functionalities, ensuring compliance with industry standards and regulations.
- Integrated AWS S3 for secure and efficient document storage, improving data accessibility and management
- Utilized Apache Kafka for robust event handling and messaging, facilitating real-time data processing and communication between microservices

Meta, Inc

May 2022 – Aug 2022

Software Engineering Intern

Menlo Park, CA

- Developed internal tools to facilitate monitoring, configuration, and maintenance of diverse components within Facebook's infrastructure.
- Designed a reusable frontend user interface (UI) utilizing Typescript and React, and implemented robust backend controllers using PHP and GraphQL.
- Conducted thorough unit testing to verify consistent behavior and functionality of the new UI and controllers.

Playphone, Inc

Sept 2018 – June 2019

Software Engineering Intern

Sunnyvale, CA

- Utilized Java Spring Boot to build a robust web server for the backend infrastructure.
- Designed and optimized a SQL database that enables seamless scalability as the user base continues to grow.
- Collaborated with previous and existing engineers to enhance the overall performance and efficiency of the platform through bug fixes and other optimization techniques.

Projects

The Dialog System Technology Challenge | *Python, Machine Learning, LLM*

Dec 2020

- Placed 1st place in track 4 of the Dialog System Technology Challenge 9, improving the Facebook research team's situated interactive multi-modal conversational AI.
- Modified the GPT-2 libraries to enable ensemble learning and improved response accuracy from 69% to 79%
- Co-authored paper, "End-to-End Task-Oriented Multimodal Dialog System with GPT-2" was accepted for the workshop on the Association for the Advancement of Artificial Intelligence (AAAI 2021)

Calligram | *Python, Computer Vision, Django*

Dec 2020

- Devised a novel data augmentation technique to train a deep neural network model to accurately recognize full-page Korean handwriting documents and reached text recognition accuracy of 98% for the training data and 75% for the testing data.
- Co-authored paper, "A Full-Page Hangul Handwriting Recognition Service Using OrigamiNet Models" received the Creative Award from HCI Korea 2021.

Technical Skills

Languages: Java, C++, Python, PHP, Bash, C, SQL, Javascript, Typescript

Developer Tools: AWS, Junit, Selenium

Technologies/Frameworks: React, Redux, Spring Boot, NodeJS, GraphQL, Machine Learning, Artificial Intelligence