

Justin Kyuhyung Lee

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EDUCATION

Boston College | Chestnut Hill, MA

B.A in Computer Science | GPA: 3.4/4.0 | ACT: 35/36 (99th Percentile)

May 2025

Relevant Courses: Data Structures, Software Engineering, Algorithms, Human AI Interaction, Web App Development (React)

TECHNICAL SKILLS

Programming Languages: Python (Advanced), Javascript (Intermediate), SQL(Intermediate), Java(Intermediate), HTML, CSS

Tools & Frameworks: React, Django, Flask, Git Version Control, Docker, Node.js, Next.js, PostgreSQL, Kubernetes

PROJECTS

Resolve | Full Stack AI Project

August 2024 - Present

- Developed a full-stack multimodal complaint analysis system leveraging **Flask**, **Next.js**, **OpenAI Whisper**, and **PostgreSQL**, capable of autonomously processing, categorizing, and summarizing customer complaints across various formats (audio, text, images, video).
- Deployed the system on **Google Cloud Platform** with **Docker** for containerization, integrating a responsive dashboard for real-time insights, and implementing a **RAG Pipeline** for enhanced data retrieval and analysis.

Boston College 4 Year Course Planner | Full Stack Project

February 2024 - June 2024

- Worked with 4 other engineers to develop a fully functional course planning web application for Boston College with a dynamic **JavaScript** frontend, **Django/Python** backend, and **SQLite** database to store user information.
- Integrated data from a REST API provided by the Boston College IT Department and leveraged full-stack development practice to implement key features for course selection & planning for over **9000+** students and staff.

PROFESSIONAL EXPERIENCE

Software Engineer Intern | Teamworks | Durham, NC

June 2024 - August 2024

- Developed a new feature within the travel module of the backend API to accommodate for customer trips consisting of multiple teams using **Python & Flask**, and wrote documentation to ensure clarity and ease of use for future developers and end-users.
- Collaborated with engineers on the Strike Team to design and implement core functionalities for a new Facility Management feature, applying Software Development Life Cycle(SDLC) practices, including thorough debugging and writing unit tests/snapshot tests to ensure the maintainability and scalability of the code.

Chief Technology Officer (CTO) | Content Academy | Tenafly, NJ

December 2023 - May 2024

- Led the development of a Software as Service(SAS) product that uses an AI chatbot trained with historical client performance data to generate personalized short-form media scripts, significantly streamlining content creation processes for **250+** customers and helping drive **\$40,000** in revenue by working with clients to refine the product.

Software Engineer Intern | LG Electronics | Englewood Cliffs, NJ

June 2023 - August 2023

- Collaborated closely with the business intelligence team to write **Python** code for integrating LG's **MSSQL** database with **Airtable**, significantly improving operational workflows and data accessibility for sales representatives.
- Developed a comprehensive shipment validation tool using **Python**, **Flask**, **SQLite** and **Google Maps Address Validation API**, greatly enhancing the accuracy and efficiency of logistics operations.