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: Machine Learning, Software Engineering, Algorithms, Human AI Interaction, Web App Development

TECHNICAL SKILLS

Programming Languages: Python, Javascript, HTML/CSS, SQL, Java

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

PROJECTS

Resolve | **Full Stack AI Project**   **August 2024 - Sept. 2024**

- 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**

- Developed a user-friendly course planner for **9,000**+ students and staff using a **JavaScript** frontend, **Django** backend, and **PostgreSQL**. Integrated a **REST API** from BC IT to streamline course selection and planning features.

PROFESSIONAL EXPERIENCE

Chief Technology Officer (CTO) | **Content Academy** | **Tenafly, NJ**   **December 2024 - Present**

- Leading a team of 4 engineers and designers to develop a full-stack **SaaS** to deliver users a responsive dashboard with Instagram & Discord API Integrations for displaying relevant user statistics, video modules, an **AI** chatbot for personalized content scripts, and a leaderboard system for over **550**+ users
- Collaborating with stakeholders to align product development with client needs for iterative feature rollout, increasing user retention by **20%**.

Software Engineer Intern | **Teamworks** | **Durham, NC**   **June 2024 - August 2024**

- Fixed critical bugs and added functionality for itinerary PDF generation within an existing feature using Python and Flask, enabling the scheduling of 1,000+ multi-team trips for sports organizations.
- Developed and deployed a new feature within the backend API in collaboration with the Engineering Strike Team, applying Agile development practices to ensure high code quality
- Wrote unit and snapshot tests following **Test-Driven Development**(**TDD**) principles, increasing code coverage by **25%** and improving system reliability and scalability.

Software Engineer Intern | **LG Electronics** | **Englewood Cliffs, NJ**   **June 2023 - August 2023**

- Built a shipment validation tool using **Python**, **Flask**, **SQLite**, and the **Google Maps Address Validation API**, improving logistics accuracy by **30%** and reducing processing times for shipment data.
- Developed **Python** scripts integrating LG's **MSSQL** database with Airtable, automating data synchronization, and improving data accessibility for **50**+ sales representatives.