

Justin Lee

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EDUCATION

Boston College

Bachelor of Arts in Computer Science

Chestnut Hill, MA

Sep. 2021 – May 2025

EXPERIENCE

Backend Software Engineer Intern

June 2024 – Aug. 2024

Teamworks

Durham, NC

- Developed functionality for PDF generation within an existing feature of Teamworks **REST API** using **Python Flask**, enabling the scheduling of **1,000+** multi-team trips for sports organizations.
- Spearheaded development of new feature for over **6,300+** sports teams within the backend API in collaboration with the Engineering Strike Team, using **Python, Flask GraphQL**, applying **Agile development** practices to ensure high code quality
- Wrote **unit tests** following **Test-Driven Development(TDD)** principles, increasing code coverage by **10%** and improving system reliability and scalability.

Software Engineer Intern

June 2023 – Aug. 2023

LG Electronics

Englewood Cliffs, NJ

- Improved logistics accuracy by **10%** through spearheading the development of a shipment validation tool using **Python, Flask, SQLite**, and the **Google Maps Address Validation API**, 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.

IT Support Technician

Jan. 2021 – May 2025

Boston College EagleTech

Chestnut Hill, MA

- Diagnosed and resolved **500+** tickets across technical issues such as hardware, software, networks, and operating systems, demonstrating strong troubleshooting and root-cause analysis skills in high-pressure environments.
- Performed system rebuilds, data recovery, virus removal, and software configuration, developing a deep understanding of Windows and macOS internals.

PROJECTS

Content Academy | *React.js, Node.js, PostgreSQL, Redis*

Dec. 2024 – May 2025

- Led a team of 4 engineers and designers to architect and deploy a scalable **full-stack SaaS** platform using **React, Node.js, Redis**(for caching Instagram API metrics), and **PostgreSQL**, supporting **500+** active users and integrating **third-party APIs** for personalized video content and displaying user analytics.
- Increased user retention by **20%** through iterative feature roll-outs, including a gamified mission and reward system, a **ranking algorithm** based on Instagram metrics, and a Discord-integrated leaderboard for community engagement.

Resolve | *Flask, Next.js, OpenAI Whisper, PostgreSQL*

Aug. 2024 – Sep. 2024

- Developed a full-stack multimodal **AI** 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, architected in an **Agentic workflow**, and implementing a **RAG Pipeline** for enhanced data retrieval and analysis.

TECHNICAL SKILLS

Languages: Python, Javascript, C++, SQL (Postgres), HTML/CSS

Frameworks: React, Node.js, Flask, TailwindCSS, Django, Next.js

Developer Tools: Git, Docker, Google Cloud Platform, Redis

Libraries: pandas, NumPy, Matplotlib, pytest, SQLAlchemy