

# Justin Kyuhyung Lee

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## EDUCATION

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**Boston College | Chestnut Hill, MA**

**B.A in Computer Science**

**May 2025**

**Relevant Courses:** Machine Learning, Software Engineering, Data Structures & Algorithms, Web App Development

## TECHNICAL SKILLS

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**Programming Languages:** Python, Javascript, C++, HTML/CSS, SQL

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

## PROFESSIONAL EXPERIENCE

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**Software Engineer Intern | Teamworks | Durham, NC**

**June 2024 - August 2024**

- Developed functionality for team 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**

- Improved logistics accuracy by **30%** through spearheading the development of 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.

## PROJECTS

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**Content Academy | Full-Stack Web App**

**December 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, and PostgreSQL**, supporting **500+ active users** and integrating third-party APIs for personalized video content and user analytics.
- **Increased user retention by 20%** through iterative feature rollouts, including a **gamified mission and reward system**, a ranking algorithm based on Instagram metrics, and a Discord-integrated leaderboard for community engagement.
- **Reduced dashboard load times by over 20%** by implementing **Redis caching** for Instagram API metrics and optimizing frontend data rendering pipelines.

**Resolve | Full-Stack AI Hackathon Project**  
**2024**

**August 2024 - September**

- 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.