

RYAN LEE

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EDUCATION

Stevens Institute of Technology

Bachelor of Science in Computer Science

Hoboken, NJ

Expected May 2025

- GPA: 3.59 | Awards: Dean's List, Edwin A. Stevens Scholarship
- Relevant Course Work: Algorithms, Data Structures, Web Programming, Computer Architecture and Organization, Systems Programming, Database Management Systems, Linear Algebra, Operating Systems

EXPERIENCE

Software Engineering Fellowship

Headstarter AI

July 2024 – Present

Bayside, NY (Remote)

- Built 5 open-source AI web applications in weekly sprints and presentations using Next.js, Vercel, and REST APIs.
- Led 2 engineering fellows to develop projects from design to deployment.
- Coached by Amazon, Bloomberg, Capital One engineers on Agile, CI/CD, and microservice patterns.

Research Assistant

Stevens Institute of Technology

May 2024 – August 2024

Hoboken, NJ (Remote)

- Applied prompt engineering to develop and implement black box attack methods for extracting sensitive information from open-source large language models.
- Designed and implemented robust defense strategies to mitigate these threats, using Python to interact with APIs and build solutions that enhance the security and reliability of these models.

Program Tutor

Ultimate Learning Group

September 2022 – May 2023

Bayside, NY (Remote)

- Taught 5th-grade English and math for the New York State exam to 6 students.
- Collaborated with a co-tutor to develop customized lesson plans and review homework assignments, focusing on individual students' academic weaknesses in coursework.

PROJECTS

Rate My Professor AI Assistant | Next.js, JavaScript, Python, Pinecone, RAG with Meta AI

July 2024 – August 2024

- Developed a Retrieval-Augmented Generation/RAG-powered AI assistant, combining Pinecone's vector database with Meta's Llama 3.1, a large language model, to deliver context-aware insights on professors and courses.
- Integrated the AI assistant into a Next.js frontend to handle user queries, optimize performance, and deliver a smooth user experience from setup to deployment.

Flashcards SaaS | Next.js, JavaScript, Meta AI, Clerk, Firebase, Stripe API

July 2024 – August 2024

- Created a flashcard AI web application allowing users to generate, manage, and study flashcards.
- Integrated account authentication and payment with Next.js, Clerk, Firebase, and Stripe.

Anime Recommendation | Express.js, JavaScript, MongoDB, REST, Handlebars

October 2023 – December 2023

- Developed a web application leveraging the MyAnimeList REST API, utilizing MongoDB, Express.js, and Node.js to offer anime recommendations based on watched anime over competitors with single title recommendations.
- Implemented features like user authentication, secure coding practices against XSS attacks, accessibility-friendly design, and data persistence in a MongoDB database for a comprehensive and user-centric experience.

TECHNICAL SKILLS

Languages: Python, PostgreSQL, JavaScript, Java, C/C++, Racket, SQL (Postgres), HTML/CSS

Frameworks: React, Next.js, Express.js, Material-UI

Developer Tools: Git, Docker, Visual Studio Code, PyCharm, Eclipse, Ubuntu