Ryan Eshan

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EDUCATION

Stevens Institute of Technology   **Hoboken, NJ**
Bachelor of Science in Computer Science   *Expected May 2026*
Scholarships & Awards: Edwin A. Stevens Scholarship, Dean's List: Fall 2023 - Fall 2024
Relevant Coursework Data Structures, Discrete Structures, Algorithms, Computer Architecture and Organization, Database Management, Operating Systems, Principles of Programming Language, Web Programming, Artificial Intelligence

TECHNICAL SKILLS

Frameworks: React, Next.js, Material-UI (MUI), Bootstrap, Bulma, Node.js, Flask
Libraries: OpenAI API, Pandas, NumPy, Matplotlib, SciPy, PyTorch, spaCy, NLTK, Lodash, jQuery, Discord.py API, Turtle
Programming: Java, Python, C/C++, JavaScript, TypeScript, HTML/CSS, SQL
Databases: PostgreSQL, Firebase, Pinecone, MySQL
Other Tools: Render, Vercel, Stripe, Gemini

EXPERIENCE

Melanin Serendip & Co. Intern   **July 2024 - Sep 2024**
Lead Front-End Website Developer   *New York City, NY*
- Led a team of **3** developers to enhance the company website, improving visual design, adding **6+** new pages, and updating content in Squarespace CMS, resulting in a **30%** increase in user engagement.
- Managed and prioritized over **50** feedback and change requests from executives and **10+** employees using a Google Sheets-based tracking system, achieving a **95%** satisfaction rate on implemented updates.
- Tested and integrated custom **HTML, CSS, and JavaScript** solutions in Squarespace, improving website functionality and performance, which reduced page load times by **20%** and improved mobile responsiveness.

The Wings Group HC Intern   **July 2024 - Sep 2024**
Front-End Website Developer   *New York City, NY*
- Enhanced the company website with the web development team, improving user engagement by **25%** over two months.
- Implemented a job board functionality using **HTML** code injection, which increased job applications by **5%**.
- Implemented **HTML, CSS, and JavaScript** solutions that improved site responsiveness, reducing page load times by **35%** and boosting mobile user satisfaction.

PROJECTS

Final Exam Finder @ Stevens | *JavaScript, TypeScript, React, Node.js, Express, PostgreSQL, Render* ⏻ **Final Exam Finder**
- Developed a Full-Stack Application with a team of **3** to streamline access to final exam dates and times for students at Stevens Institute of Technology.
- Transformed Excel-based Exam Schedules into a structured **PostgreSQL** database, enabling efficient data retrieval and management.
- Built a Robust Backend Server using **Node.js** and **Express** to handle user interactions, perform dynamic database queries, and deliver accurate exam information.

Flashcard SaaS Platform | *Next.js, Firebase, OpenAI, Clerk, Stripe* ⏻ **Flashcard**
- Built and launched a SaaS product using **Next.js** that generates dynamic flashcards based on user-selected topics utilizing **OpenAI's GPT-4** model.
- Utilized **Firebase** for backend infrastructure, including database management, and hosted the platform on **Vercel**.

Rate My Professor Chatbot | *Next.js, MUI, Gemini, Pinecone, Python* ⏻ **Professor Chatbot**
- Developed an AI-powered chatbot for querying professor academic reviews and ratings.
- Built backend API integrating **Google Gemini** and **Pinecone**, leveraging vector embeddings to fetch professor ratings and generate contextually appropriate responses for users.
- Implemented **Pinecone** vector database integration with **Python**, storing and retrieving professor information.

MiniShell | *C, UNIX* ⏻ **Minishell**
- Developed a robust **C** program replicating a Unix shell, supporting essential terminal operations.
- Implemented core shell commands, including `cd`, `exit`, `ls`, `pwd`, and a custom `lp` function for listing active processes.
- Enhanced program reliability by incorporating signal handling, specifically capturing `SIGINT` to return the user to the prompt without terminating the program.

Amusement Park Ratings Platform | *JavaScript, AJAX, CSS, HTML, Handlebars* ⏻ **Rate Theme Park**
- Developed a Full-Stack web platform with a team of **3** using agile practices and version control to provide detailed ratings and reviews for amusement parks, rides, and food stalls, catering to audiences aged **7-40**.
- Created a responsive user interface using **HTML**, **CSS**, and **Handlebars**, delivering a seamless user experience
- Integrated **AJAX** for dynamic data updates, allowing users to add reviews, ratings, and new parks/rides without reloading the page.