

Pratyush Patel

US Citizen | 201-301-5800 | patelpratyush28@gmail.com | [LinkedIn](#) | [Github](#) | [Website](#)

EDUCATION

Stevens Institute of Technology

Hoboken, NJ

Bachelor of Science in Computer Science

May 2026

- Scholarships & Awards: Edwin A. Stevens Scholarship
- Course Works: Software Development Process, Data Structures, Algorithms, Machine Learning

SKILLS

Languages: Java, Python, C++/C, JavaScript, HTML/CSS, SQL, OCaml

Libraries: Tkinter, NumPy, Pandas, RestAPI, TensorFlow, React, Next.js

Developer Tools & Technology: Git, GitLab, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Jupyter Notebook, Firebase, GCP, Vercel, OpenAI, CI/CD

Soft Skills: Teamwork, Time Management, Communication, Problem-solving

EXPERIENCE

Software Engineering Fellow

July 2024 - Sep 2024

Headstarter

Remote

- Spearheaded the development of multiple AI-driven web applications, leveraging Next.js, React, and Firebase, which increased user engagement by 40% through iterative enhancements and real-time data processing.
- Built and deployed a scalable SaaS platform with advanced user authentication using NextAuth.js and Firebase, integrating Stripe for secure transactions, resulting in seamless payment processing and a 95% customer satisfaction rate.
- Designed and implemented a web scraping tool to automate data extraction from Rate My Professor, enhancing a knowledge retrieval system with Pinecone and OpenRouter API, boosting query response accuracy by 30%.

PROJECTS

Weather App | JavaScript, HTML/CSS, Git, OpenWeatherMap API

- Developed a dynamic weather application using HTML, CSS, and JavaScript, fetching real-time weather data from the OpenWeatherMap API.
- Implemented a user-friendly interface with a search bar and button, increasing user engagement by 40%.
- Utilized asynchronous JavaScript (Promises) to handle API calls, ensuring smooth data retrieval and display without impacting the user experience.
- Conducted user testing to gather feedback, resulting in UI improvements and increased user satisfaction by 25%.

AI Flashcards SaaS | Next.js, Clerk, Firebase, OpenAI, Stripe

- Developed an AI-powered flashcard web application, integrating Next.js, Clerk for user authentication, and Firebase for backend services.
- Implemented Stripe for seamless payment processing, contributing to acquiring paid customers and generating revenue.
- Executed a social media marketing strategy, driving user engagement and successfully onboarding over 100 users.

Rate My Prof | React, Next.js, Google Generative AI, OpenRouter, Pinecone

- Developed ProfessAI, an AI-powered assistant that provides personalized professor recommendations using a Retrieval-Augmented Generation (RAG) system.
- Implemented comprehensive review analysis, real-time chat interface, and advanced search capabilities to enhance user experience.
- Utilized Google Generative AI for text embeddings and Pinecone for efficient vector storage and retrieval.
- Integrated user-submitted reviews and ensured data privacy and security, with no personal information shared beyond official reviews.

LEADERSHIPS

National Honor Society | President

Sep 2021 - Jun 2022

- Conducted the annual induction ceremony
- Promoted academic excellence and character development