Pratyush Patel

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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, RestAP, TensorFlow
Soft Skills: Teamwork, Time Management, Communication, Problem-solving
Developer Tools & Technology: Git, GitLabs, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Jupyter Notebook

Experience

Software Engineering Fellow July 2024 - Present
Headstarter *Remote*

- Built 5+ AI apps and APIs using NextJS, OpenAI, Pinecone, StripeAPI with 98% accuracy as seen by 1000 users
- Developed projects from design to deployment leading 4+ engineering following using MVC design patterns
- Coached by Amazon, Bloomberg and Capital One engineers on Agile, CI/CD, Git, and microservice patterns

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%.

Movie Recommender System | *Python, Git, Juputer, Streamlit, TMDB DataBase and API*

- Created a Movie Recommender System using Python's Streamlit library, providing personalized movie suggestions with a 90% accuracy rate.
- Used Jupyter Notebook to streamline and organize movie data, reducing data processing time by 50%.
- Designed a user-friendly interface with dropdown menus and a recommendation button, improving user satisfaction by 30%.
- Implemented collaborative filtering and content-based filtering algorithms to enhance recommendation accuracy.
- Integrated the TMDB API to fetch movie data, including ratings, genres, and descriptions, ensuring up-to-date recommendations.

To-Do-List | *JavaScript, HTML/CSS, Git*

- Developed a feature-rich Todo List web application using HTML, CSS, and JavaScript, enabling users to add, edit, and delete tasks with interactive functionalities
- Integrated robust local storage functionality to persist user-generated data, ensuring 100% data retention after browser refreshes
- Employed responsive design principles, improving accessibility across devices by 25%
- Conducted cross-browser testing to ensure compatibility and performance across multiple web browsers.

Leaderships

National Honor Society | *President* Sep 2021 - Jun 2022

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