Dev Patel

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EDUCATION

Cornell University — Ithaca, NY
Masters of Engineering in Computer Science — *Expected May 2025*

Stevens Institute of Technology — Hoboken, NJ
Bachelor of Science in Computer Science — *May 2024*
GPA: 3.884/4.0

EXPERIENCE

Data Analyst Intern — June 2024 – Present
Merck — *Rahway, NJ*
- Data Analyst intern within the IT Emerging Talent program

Software Developer Junior Analyst — January 2024 – May 2024
Stevens Student Managed Index Fund — *Hoboken, NJ*
- Enhanced internal website functionality using **NextJS** by implementing modularization and optimizing various components for **server-side rendering**
- Revamped data storage architecture from a pickle file to a **PostgreSQL** database hosted on an **AWS** box instance
- Transformed **AWS** production updates by seamlessly integrating **Docker**, ensuring a highly efficient process synchronized with **GitHub releases**

Teaching Assistant — January 2023 – May 2024
Stevens Institute of Technology — *Hoboken, NJ*
- Mentored students in **Discrete Structures (CS 135)** and **Database Management Systems (CS 561)**.
- Created python scripts to **automate the grading** of ∼200 weekly lab submissions, saving over 2 hours weekly

Machine Learning Engineer Intern — December 2022 – August 2023
Omnidya — *Los Angeles, CA*
- Led and supervised a group of 3 interns in orchestrating multiple data analysis initiatives
- Created a **data visualization** tool for crime and weather analysis, leading to a **25% shift** in marketing resources
- Engineered a mobile-optimized seat-belt detection model, excelling in speed compared to the existing solution

Information Technology Intern — May 2022 – August 2022
Salvatore Ferragamo — *New York, NY*
- Wrote **scripts** to transfer data between systems utilizing **APIs** and vendor collaboration
- Installed conduits, leading to a **900% increase** in network speeds, optimizing system performance and data transfer rates

Web Design and Development Intern — October 2020 – May 2021
Open Doors Technology — *Fairfield, NJ*
- Designed and developed website templates using **photoshop, HTML, CSS, and JavaScript**

PROJECTS

RL-sim | *Python, RL* — February 2024 – Present
- Utilized reinforcement learning to simulate a realistic stock market, including market makers and liquidity takers.
- Collaborated on drafting a research paper outlining methodologies and discoveries, currently pending peer-review.

Pive | *Python, Django, React, PostgreSQL, Docker* — July 2023 – January 2024
- Developed a full-stack web application using with **Django** serving a **REST API** with **React** as the frontend
- Utilized secure **APIs** for handling location and payments, ensuring **data protection** and **seamless transactions**

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, TypeScript, HTML/CSS, OCaml, R, Scheme
Frameworks: React, Next.js, Node.js, Express, Flask, Django
Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Postman, Bootstrap, Jira, AWS, Vim
Libraries: OpenCV, sklearn, tensorflow, pygame, pandas, NumPy, Matplotlib, Google Maps, Stripe, Twilio