Aryaman Patel

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EDUCATION

Purdue University	West Lafayette, IN
Bachelor of Science in Computer Science with a Minor in Nuclear Engineering	August 2025 - May 2029

SKILLS

Computer Languages: Python, Java, JavaScript, R, SQL
Frameworks/Technologies: NodeJS, Matplotlib, Pandas, React, Firebase, FastAPI, NetworkX
Software: Adobe Photoshop, Adobe After Effects, Adobe Premiere Pro, IntelliJ, Visual Studio Code

PROFESSIONAL EXPERIENCE

SPARK Labs, Purdue University   West Lafayette, IN
Artificial Intelligence Researcher   October 2025 – Present
- Fine-tuned an LLM using thousands of syllabi from various higher-ed institutions to analyze the usage of AI within the learning environment
- Web scrapped thousands of publicly available syllabi using Python libraries such as selenium and be4utilsoup

The Data Mine, Purdue University   Indianapolis, IN
Undergraduate Data Science Researcher   August 2025 – Present
- Collaborated with defense contractor V2X to design and prototype vision software for nationwide tolling booths
- Developed a Python-based ML solution capable of recognizing up to 3,000 license plates per hour, per lane

BAPS, Local Hindu Temple   Edison, NJ
Volunteer Tech Admin   March 2021 – August 2025
- Managed databases for events and attendance at the temple
- Created forms, graphics, and management solutions for various events
- Organized signups and front desk questions for events with over 2,000 attendees

Glowstik, YouTube   Edison, NJ
Coding Content Creator   January 2021 – October 2024
- Built a social media following of over four thousand on YouTube
- Amassed over 1 million views across 140+ YouTube videos and taught thousands python programming

Oza Intel, Salesforce Consultant   Edison, NJ
Software Engineering Intern   July 2023 – September 2023
- Integrated Salesforce into companies and aided clients analyze data to maximize productivity
- Worked on a data visualizer allowing clients to filter sales data by zip code
- Conceptualized the framework for allowing multiple languages within the dashboard, increasing productivity for thousands of employees working internationally

ACTIVITIES

- Purdue Computer Science Club Executive Board Member   Present
- Purdue Climbing Club   Present
- Hackathon Winner (NHacks 6, GooseHacks 2023, Purdue Hello World)   July 2022 – September 2025

PROJECT WORK

Pedal   September 2025
- Developed a full-stack web application using Python, FastAPI, NetworkX, OSMnx, React, and Firebase to generate safe, eco-friendly travel routes by integrating crime, bike lane, and geospatial data
- Implemented a custom graph-based routing algorithm (Dijkstra with weighted safety penalties) and processed 40,000+ crime reports and OpenStreetMap data
- Won 2nd Place Overall at Purdue's largest hackathon ever

Vroom   Summer 2025
- Prototyped an app to find the best roads to drive on using a self-developed algorithm factoring in curviness, speed limit, elevation, and tarmac quality
- Currently creating a frontend using React and Firebase to visualize roads and integrate them into existing trips
- Used NextJS, TailwindCSS, and Maptiler to achieve the frontend with Firebase, FastAPI, and OSMnx for backend