ADITYA PATEL

Windsor, ON, CAN

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EDUCATION

Bachelor of Computer Science, Honours　　　　　　　　　　　Sep. 2023 – Apr. 2027
University of Windsor　　　　　　　　　　　　　　　　　　　　　　　　　*Windsor, ON*
- Minor in Mathematics
- Minor in Entrepreneurship

EXPERIENCE

Software Development Intern　　　　　　　　　　　　　　　　Jan. 2024 – Apr. 2024
Glendor, Inc　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*Remote*
- Developed and deployed local LLM models (Llama 2, Mistral, Falcon) to detect and redact sensitive PHI in medical documents, achieving 99% accuracy.
- Designed automated benchmarking scripts in Python to systematically evaluate model performance, reducing manual validation time by over 20 hours.
- Generated custom medical datasets using Faker and Python to rigorously test LLM accuracy, ensuring robust evaluation across 500+ files.

Teaching Assistant　　　　　　　　　　　　　　　　　　　　Sep. 2024 – Apr. 2025
University of Windsor　　　　　　　　　　　　　　　　　　　　　　　　*Windsor, ON*
- Lead lab sessions to consolidate course content for 70+ students each week while refining communication skills.

Programming Lead　　　　　　　　　　　　　　　　　　　　Nov. 2021 – Jun. 2023
FIRST Robotics Team 4903　　　　　　　　　　　　　　　　　　　　　*Windsor, ON*
- Demonstrated problem solving and critical thinking by bringing our robot to top 130 in the world with P.I.D tuning.

PROJECTS

Datarai | *React, Firebase, Tailwind CSS, Git, Google Cloud Platform, Node.js, Express.js, Render*　　　2025
- Developed an AI-driven data analysis platform that enables users to upload, process, and interact with structured data using LLMs.
- Engineered a scalable back-end with Node.js and Firebase to handle AI-powered data insights and visualization requests with minimal latency.
- Integrated Google Gemini API to perform automated data cleaning, exploratory analysis, and predictive insights for enhanced decision-making.

Chop Chop | *React, Vite, Firebase, HTML/CSS, Git*　　　　　　　　　　　　　　　　　2025
- Engineered a full-stack study tool within 30 hours, optimizing for user engagement and seamless usability.
- Designed and implemented a robust Firebase-powered back-end, integrating eight core features to enhance functionality.
- Learned and applied back-end system design principles in under 2 hours, demonstrating adaptability and problem-solving under pressure.

Orrery, Or Are We? | *Three.js, TypeScript, Vite, Firebase, HTML/CSS, Git*　　　　　　　　　2024
- Developed an interactive 3D web-based orrery that visualizes real-time orbital simulations using NASA datasets for accurate trajectory modeling.

Remora | *Python*　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　2023
- Developed an interpreted programming language with functions and simple data types such as arrays and strings.
- Exposed to the inner workings of basic programming languages, lexing, parsing, interpreting and executing.

TECHNICAL SKILLS

Languages: Python, JavaScript, Typescript, Java, C, C++, Lua, SQL, PHP, Rust
Developer Tools: Git, Firebase, Google Cloud Platform, Supabase, AWS
Libraries and Frameworks: React.js, Tailwind CSS, Three.js, Node.js, pandas, NumPy, Matplotlib, Scikit-learn

LEADERSHIP

Naval Warfare Officer　　　　　　　　　　　　　　　　　　　Jan. 2024 – Present
Royal Canadian Navy　　　　　　　　　　　　　　　　　　　　　　　*In-Person Part-Time*
- Appointed Divisional Officer tasked with supervising a team of 10 members.
- Handle administration for members, facilitating training and career progression as well as performing additional duties including recruitment, organizing training events and creating unit level policies.