

# Aditya Patel

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## EDUCATION

### Bachelor of Computer Science, Honours Co-op with Minor in Mathematics

University of Windsor

Apr. 2027

Windsor, ON

## EXPERIENCE

### Software Development Intern

Glendor, Inc

Jan. 2024 – Apr. 2024

Remote

- Utilized Meta's Llama AI and Python to detect and censor personal health information in medical documents
- Wrote scripts to create test data and ground truths for 500+ files using Python and Faker
- Automated model analysis by evaluating unique model outputs using Python, saving 50+ hours of manual analysis

### Teaching Assistant - Computer Architecture I: Digital Design

University of Windsor

Sep. 2024 – Apr. 2025

Windsor, ON

- Ran labs to consolidate course content and provided valuable feedback and assistance to 100+ students each week
- Regularly tutored students on topics such as Boolean Algebra, KMaps, Adders/Subtractors, and Multiplexers

### Programming Lead

FIRST Robotics Team 4903 @ Vincent Massey Secondary School

Nov. 2021 – Jun. 2023

Windsor, ON

- Programmed a personalized swerve drive library implemented with C++ and a custom driver dashboard implemented with React
- Brought the robot's capability from 3-4 pieces scored to 8-9 pieces scored per game with PID tuning and software optimizations

## PROJECTS

### Remora | Python

- Developed an interpreted programming language using Python
- Exposed to the inner workings of basic programming languages, lexing, parsing, interpreting and executing
- Implemented features include functions and simple data structures such as arrays and strings

### Orrery, Or Are We? | ThreeJS, TypeScript, Vite, Firebase, HTML/CSS, Git

- Built a 3D Solar System Model leveraging Three.js and TypeScript to visualize real-time planetary motion

### EcoWatch | React, Vite, Firebase, Tailwind CSS, Git

- Developed a social networking app that inspires community-oriented environmental activism
- Utilized Firebase, React and Tailwind to implement user authentication and accessible UI/UX
- Included features are local community discovery, community feed, community challenges and goals

### Chess Bot | Java, Swing, Git

- Created a bot to play chess with algorithms such as min-max, alpha-beta pruning, and hard-coded moves
- Used Swing to create visual elements such as game pieces and UI/UX leading to a user-friendly layout

## TECHNICAL SKILLS

**Languages:** Python, Java, C, C++, JavaScript, Typescript, Lua, SQL

**Developer Tools:** Git, Firebase, VS Code, PyCharm, IntelliJ

**Libraries:** React, Tailwind CSS, ThreeJS, pandas, NumPy, Matplotlib, Swing, WPILib

## OTHER WORK EXPERIENCE

### Naval Warfare Officer

Royal Canadian Navy

Jan. 2024 – Present

In-Person Part-Time

- Appointed Divisional Officer tasked with supervising a team of 10 members
- Handle administration for members as well as facilitating training and career progression
- Perform additional duties including recruitment, organizing training events and creating unit level policies
- Engaged in training exercises to consolidate skills such as search and rescue, navigation, and leadership