

Aditya Patel

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EDUCATION

University Of Windsor

Bachelor of Computer Science, Honors Co-op

Sep. 2023 – Apr. 2027

Windsor, ON

TECHNICAL SKILLS

Languages: Python, Java, C, C++, C#, JavaScript, Typescript, Lua

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

Libraries: React, Tailwind CSS, Node.js, pandas, NumPy, Matplotlib, Swing, WPILib

EXPERIENCE

Software Engineering Intern

Glendor, Inc

Jan. 2024 – Apr. 2024

Remote

- Worked on integrating NLP models to censor identifying elements in medical records
- Researched **20+** different data sources, such as websites, PDFs, and videos for NLP model analysis
- Worked with open-source LLMs such as **Llama 2**
- Implemented a program to scrape **1000+** medical files from various sources for analysis

Programming Lead

FIRST Robotics Team 4903 @ Vincent Massey Secondary School

Nov. 2021 – June 2023

Windsor, ON

- Contributed about **25%** in programming our own swerve drive library and **30%** in a custom driver dashboard
- Worked on tuning PID values, bringing our robot's capability from **3-4** pieces to **8-9** pieces a game
- Developed multiple autonomous routines each season
- Connected with and assist 2 other local teams in getting their robot up and running
- Documented existing programming knowledge in 20 pages for future team members to use in future years

PROJECTS

Remora | *Python*

- Developed an **interpreted programming language** in Python that resembles Python with small personal twists in syntax
- Learned about the inner workings of interpreted languages, such as **lexing, parsing, interpreting and executing**
- Supports **functions** and simple data structures such as **arrays** and **strings**

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

- Developed a **social networking app** that inspires community-oriented environmental activism.
- Gained experience in **collaboration** with team members using **Git**
- Learned about **OAuth, accessibility, UI/UX** design

AI Prediction Models | *Python, pandas, matplotlib, numpy*

- Developed multiple prediction models using popular practice datasets
- Learned about **data analysis** and cleaning using pandas and numpy
- Learned about data visualization such as bar graphs and statistics to gain a better understanding of each dataset
- Learned about which model to use in different scenarios, such as **linear and logistic regression, decision trees, random forest, classification models, etc.**

Chess AI | *Java, Swing, Git*

- Developed a chess game with Java's Swing framework
- Created an AI that used algorithms such as **min-max, alpha-beta pruning**, and basic hard-coded moves
- Created visual elements such as game pieces and **UI/UX**
- Used **Git** to collaborate with partner