

# ADITYA PATEL

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## EDUCATION

### Bachelor of Science in Computing Science

University of Alberta

Edmonton, AB

Expected Graduation: 2027

**Relevant Courses:** Introduction to SWE | Algorithms | Introduction to File and Database Management | Machine Learning | Computer Organization and Architecture

## EXPERIENCE

### AI Software Developer Intern

JuliGerm

Remote

Apr 2025 - Aug 2025

- Developed and maintained AI-powered backend systems for agricultural data analysis, including a search engine to track crop health, soil quality, water usage, and other key farming indicators.
- Integrated local weather and satellite data to deliver predictive insights for farmers, and deployed solutions on Microsoft Azure for scalability and reliability.

### AI Software Developer Intern

MedXAI

Edmonton, AB

July 2024 - Present

- Developed a generative model with 90% accuracy to predict COVID-19 trends and built visualizations for effective presentation.
- Conducted in-depth analysis on 100+ datasets, uncovering artificial trends for improved forecasting.

### ML, Web Development Intern

UAIS (Undergraduate Artificial Intelligence Society)

Edmonton, AB

January 2024 - April 2024

- Developed ML models for industrial risk analysis with 85% accuracy, integrated OpenAI API improving efficiency upto 40%.
- Optimized datasets with PCA and feature scaling, improving model efficiency by 10% and risk prediction accuracy by ~20%.

## PROJECTS

### Sign Language Detector Project | OpenCV, TensorFlow, Python, Jupyter Notebooks

Edmonton, AB

| Github Repo: [github.com/adityadipakpatel/Sign-Language-Detector](https://github.com/adityadipakpatel/Sign-Language-Detector)

January 2024

- Developed a real-time sign language detection web app with TensorFlow and Computer Vision, achieving 90% accuracy.
- Interpreted sign language gestures into text, enhancing digital communication for Deaf and Mute individuals.

### RareQuest: Disease Awareness Game | HTML, CSS, JavaScript

Montreal, QC

Code to Give (Morgan Stanley) | Github Repo: [github.com/adityadipakpatel/RQMO12](https://github.com/adityadipakpatel/RQMO12)

May 2024

- Developed RareQuest during "Code to Give" Hackathon, implementing JavaScript-based game mechanics to educate on rare diseases.
- Designed an interactive 2D game map with front-end and back-end logic, managing database operations for player progress.

### Resume Parser, LaTeX PDF Generator | Python, HTML, CSS, JavaScript, LLM API, PdfLatex API

Edmonton, AB

GHacks 2024 | Github Repo: [github.com/adityadipakpatel/RQMO12](https://github.com/adityadipakpatel/RQMO12)

August 2024

- Led development of a resume parser and LaTeX PDF generator during GDSC Hackathon, using an LLM API for text parsing.
- Implemented backend features to convert user inputs into LaTeX using Python and pdflatex, with a frontend built in HTML, CSS, and JavaScript.
- Coordinated API integration for seamless interaction between frontend and backend systems.

### WeatherSage: Weather Info Retriever Project | Python, API (fetching data), JSON (data processing)

Edmonton, AB

| Github Repo: <https://github.com/adityadipakpatel/WeatherSage>

March 2024

- Fetches weather data using OpenWeatherMap API and Utilized Python to make API requests, process user inputs, and manage API responses.
- Extracted and processed JSON data, performed file operations, and gained hands-on experience in Python scripting and API integration.

## TECHNICAL SKILLS

**Languages/Frameworks:** Python, Java, JavaScript, SQL, C, C++, HTML, CSS, RISC-V, Django, Flask

**Dev Tools/Technologies:** Android Studio, Postman, Git, GitHub, Version Control Systems, ML, Web, Cloud, Networking, OOPs, Data Structures & Algorithms

**Interpersonal Skills:** Time Management, Team Management, Leadership, Teamwork, Adaptability, Communication Skills