

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

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

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

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, SQL, 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