

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 File and Database Management | Algorithms | Machine Learning | Computer Organization and Architecture | Introduction to Software Engineering

EXPERIENCE

AI Software Developer Intern

JuliGerm

Lesotho, South Africa (Remote)

Apr 2025 - Aug 2025

- Designed and maintained AI-powered backend systems on Microsoft Azure to analyze agricultural and satellite data, increasing system scalability and reducing downtime by 30%.
- Built a custom search engine to monitor crop health, soil quality, water usage, and weather data, reducing farmers' manual tracking effort by 40% and improving decision-making speed.

ML, Web Development Intern

UAIS (Undergraduate Artificial Intelligence Society)

Edmonton, AB

January 2024 - April 2024

- Delivered 85% accurate industrial risk analysis by deploying NLP pipelines, reducing manual review workload by 40% and improving prediction reliability by 20% and improving model runtime by 10%.
- Automated report generation with OpenAI API and applied PCA with feature scaling on large datasets, cutting client delivery time by 40%.

PROJECTS

Mood Tracker Android App | Java, Android SDK, Firebase, Google Maps SDK

Team Project | Github Repo: github.com/cmput301-w25/project-kernelcrew

Edmonton, AB

April 2025

- Built a mood-tracking Android app with geotagged pins, custom timestamps, and offline sync, enabling 100+ users to reflect on emotions more consistently.
- Implemented authentication, social following, and notifications in a 6-member Agile team, increasing daily log completion rates by 25% during testing.

BearBazaar: Campus Marketplace | React.js, Express.js, Prisma, SQLite, Node.js, REST API

HackED 2025 | Github Repo: github.com/adityadipakpatel/BearBazaar

Edmonton, AB

February 2025

- Developed a full-stack marketplace with React.js frontend and Express.js + Prisma backend, supporting secure listings and messaging for 200+ students.
- Optimized SQL queries and REST APIs, reducing average response time by 20% and ensuring reliable real-time updates across the platform.

ConsoleTweeter: CLI Social Platform | Python, SQLite, MongoDB

Team Project | Github Repos: [SQLite](#) · [MongoDB](#)

Edmonton, AB

December 2024

- Engineered a command-line social platform with authentication, tweeting, search, and following, tested on 200+ sample tweets across SQL and NoSQL backends.
- Implemented hashtag parsing and user filters, improving search precision and user navigation efficiency by 30%.

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

HackED 2024 | Github Repo: github.com/adityadipakpatel/Sign-Language-Detector

Edmonton, AB

January 2024

- Built a real-time sign language detection app with TensorFlow and OpenCV, translating gestures into text with 90% accuracy.
- Reduced recognition latency to under 200ms per gesture, enabling faster digital communication for Deaf and Mute individuals.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, JavaScript, TypeScript, SQL, HTML/CSS

Frameworks & Libraries: ReactJS, NodeJS, ExpressJS, Redux, Django, Flask, PyTorch, TensorFlow, scikit-learn

Databases & Cloud: PostgreSQL, MySQL, MongoDB, Microsoft Azure, Amazon Web Services, Google Cloud Platform

Developer Tools: Git/GitHub, Postman, Docker, Android Studio, Linux, Windows