

Krish Rajani

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EDUCATION

University of Alberta

Edmonton, AB

BSc (Honors) in Computing Science

Aug. 2023 – Apr. 2027

- Relevant Courses: Programming Methodology, Discrete Math, Algorithms I, Basics of Machine Learning, Fundamentals of Computation I/II, File and Database Management, Object-Oriented Programming

EXPERIENCE

Software Developer Intern

Sept 2025 – Present

Apex Utilities

Edmonton, AB

- Integrating an AI agent designed to accelerate ticket resolution and enhance customer support efficiency.

Software Engineer Intern

May 2025 – Sept 2025

Wrise

Calgary, AB (Remote)

- Implemented a full-stack AI platform using TypeScript and React to ingest and process up to **380** minutes of social media content per creator via **OAuth2 REST APIs**.
- Optimized video transcription pipeline, reducing processing time by **64%** through zero-cost caption ingestion with SRT parsing and deduplication.
- Directed development of a fan-facing chatbot using **LangChain**, **GPT-4.1**, and **RAG**, achieving **99% relevance** in qualitative testing.

PROJECTS

[FuelWise](#) | *MongoDB, Express.js, Node.js, React.js*

- Engineered a fuel recommendation app that helps users achieve up to **8% fuel cost savings** and **7% fueling volume gain** by analyzing live station pricing and geolocation.
- Reduced redundant backend API calls by **80%** by implementing user-triggered fetch logic, optimizing performance and reducing latency during fuel station retrieval.
- Ranked fuel stations by distance and price using Google Maps Distance Matrix API, enabling accurate travel time estimates and smarter fuel recommendations.

[Interactive Digit Classifier](#) | *Flask, React.js, Python, NumPy*

- Deployed a web-based digit recognition tool with a React frontend for drawing/uploading digits and a Flask backend serving a custom-trained neural network on MNIST.
- Built and trained a feedforward neural network from scratch using backpropagation, SGD, and sigmoid activations to achieve **96% accuracy**.
- Visualised neural network predictions in-browser to support interpretability and user interaction with AI behaviour

[Silent Signal](#) | *React.js, AWS Lambda, FastAPI, TensorFlow Hub*

- Collaborated on a real-time ambient noise violation detector for distributed teams using Web Audio API, AWS Lambda, and FastAPI.
- Deployed Google's YAMNet model to classify microphone input into **521+** sound categories, achieving **95%** accuracy on benchmark datasets such as UrbanSound8K.

LEADERSHIP EXPERIENCE

Assistant Director, CSW (TeamUp Science)

May 2024 – May 2025

Edmonton, AB

- Taught Python fundamentals to **20+** high school students during a workshop, improving their coding fluency as measured by live coding exercises and hands-on activities.
- Worked with mentors and volunteers to co-develop engaging lesson plans, emphasizing collaboration in curriculum design and student support.

TECHNICAL SKILLS

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

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

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

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