Krish Rajani

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EDUCATION

University of Alberta — Edmonton, AB
BSc (Honors) in Computing Science — *Aug. 2023 – May. 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

AI Software Developer Intern — Sept 2025 – Present
Apex Utilities — *Leduc, AB*
- Integrating an AI agent with a **React + TypeScript** interface to accelerate ticket resolution by **10%**.

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 **6+ hours** 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.
- Led 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*
- Developed 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.

HealthIQ | *FastAPI, React.js, scikit-learn, SHAP, Docker*
- Engineered a preventive health dashboard with **React**, **TypeScript**, and FastAPI, enabling users to input metrics and obtain chronic disease risk predictions in real time.
- Trained and validated a logistic regression model on the PIMA Diabetes dataset, achieving an **AUC score of 83%**, and improved interpretability through **SHAP-based feature attribution** visualizations.
- Containerized the application with **Docker** and automated deployment via a **CI/CD pipeline** on GitHub Actions, reducing release cycle time by **30%** and ensuring scalable cloud deployment.

Silent Signal | *React.js, AWS Lambda, FastAPI, TensorFlow Hub*
- Collaborated on a real-time ambient noise violation detector for remote teams using **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.
- Collaborated with mentors and volunteers to 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