

# Krish Rajani

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## EDUCATION

### University of Alberta

BSc (Honors) in Computing Science

Expected Graduation: Dec 2027

Edmonton, AB

- Relevant Courses: Algorithms, Software Engineering, Discrete Mathematics, Machine Learning, Computer Vision, File and Database Management, Object-Oriented Programming

## EXPERIENCE

### Software Development Intern

Sept 2025 – Present

Apex Utilities

Leduc, AB

- Developed an internal support bot using **Python**, Azure Bot Framework, and GPT-4 embeddings on PostgreSQL vector storage to automate ticket classification, reducing manual triage workload by 10%.
- Built a **Python** data processing pipeline to score and filter knowledge base documents, reducing dataset size by 70% and improving retrieval quality.
- Automated file management and user provisioning tasks using PowerShell scripts, reducing manual operations by 2+ hours weekly across multiple departments.

### Software Engineer Intern

May 2025 – Sept 2025

Wrise

Calgary, AB

- Implemented a full-stack web application using **React** and **TypeScript** in an agile development team, enabling real-time user interactions with creator-trained language models via RESTful APIs
- Optimized video transcription pipeline, cutting processing time by **60%** by adding SRT parsing and deduplication
- Developed a context-retrieval system utilizing RAG and GPT-4, achieving high relevance in internal testing

## PROJECTS

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

- Engineered a fuel recommendation app that helps users achieve up to **8%** cost savings and **7%** fuel volume gain, serving **100+** users through live station pricing and geolocation analysis.
- Architected a 3-tier caching system with request collapsing and adaptive rate limiting, cutting API costs by **90%** during peak usage
- Ranked fuel stations by distance and price using Google Maps API, enabling accurate travel time estimates and smarter fuel recommendations.

### [HealthIQ](#) | Python, React.js, TypeScript, scikit-learn, Docker

- Built a health risk prediction dashboard using **Python**, **React**, and **TypeScript** with an ML model achieving 83% classification accuracy.
- Containerized the app with Docker and set up CI/CD with automated unit testing on GitHub Actions.

### [Silent Signal](#) (Hackathon) | Python, AWS, React.js

- Built a real-time noise violation detection prototype using **Python**, **AWS Lambda**, and **React.js**, leveraging Google's YAMNet model to classify 521+ sound categories with 95% accuracy.

## LEADERSHIP EXPERIENCE

### Assistant Director, Computing Science

May 2024 – May 2025

TeamUp Science

Edmonton, AB

- Organized and taught **Python** fundamentals to 20+ high school students during a workshop, improving coding fluency through live exercises.
- Coordinated with mentors and volunteers to develop engaging lesson plans, emphasizing collaboration in curriculum design and student support.

## TECHNICAL SKILLS

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

**Frameworks & Libraries:** ReactJS, NodeJS, ExpressJS, NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch, Redux

**Databases & Cloud:** PostgreSQL, MySQL, MongoDB, AWS, Microsoft Azure, Google Cloud Platform

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