

# Akram Jamil

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## Technologies

**Languages:** C/C++, Python, Java, JavaScript, TypeScript, Bash, SQL, HTML, CSS, Dart, Scheme, Racket

**Developer Tools:** Git/GitHub, Docker, Kubernetes, AWS, Jupyter Notebook, IntelliJ, Android Studio, Figma

**Databases:** PostgreSQL, SQLite, MongoDB, Firebase, Neon, Supabase, Drizzle, Prisma

**Operating Systems:** Windows, macOS, Linux (Ubuntu)

**Libraries/Frameworks:** pandas, NumPy, TensorFlow, React, Node.js, Next.js, Express.js, TailwindCSS, Flask, Selenium, SQLAlchemy

## Experience

**Canada Cartage System Limited**, Telecommunications Consultant Intern

Toronto, ON  
Jun 2023 to  
Aug 2023  
2 months

- Achieved a **20% reduction in downtime** by deploying a company-wide telecommunications infrastructure upgrade, ensuring seamless communication across over **5000+** devices while optimizing network performance.
- Implemented a database management system** in Python for Android device identification codes and streamlined application installations using Samsung Knox, improving scalability across **35+ regional offices**.
- Analyzed and maintained telecommunications data systems** to ensure compliance with industry standards and internal policies, ensuring secure and efficient operations.
- Collaborated with IT teams** to develop and implement scalable communication solutions that supported the company's logistics and transport operations, enabling efficient handling of **10,000+ daily logistics requests**.

## Projects

**AlzGuard – YIC Winning Project**

**React, JavaScript, TensorFlow, Scikit-Learn, Python, Flask**

[GitHub Link](#)

- Engineered the front-end and AI model using React, Python, HTML, and CSS for an Alzheimer's detection tool aimed at physicians, which won a **\$1,000** prize at YIC (Youth Impact Challenge).
- Aided in developing a convolutional neural network (CNN) to classify **2000+** images and qualitative clinical data to determine the likelihood of a patient having Alzheimer's Disease with **85.3%** accuracy.
- Collaborated in a **team of 3** to integrate machine learning models (Random Forest, Meta Classifier) for analyzing MRI scans providing invaluable support in early diagnosis and patient care management.

**LearnETF (Sun Life Case @ GeeseHacks Winner)**

**React, Next.js, Plotly, Flask, TailwindCSS**

[GitHub Link](#)

- Developed a full-stack fintech education platform with **15** interactive modules using React.js and Flask, helping Gen Z investors understand ETF portfolios and risk analysis.
- Won a **\$400** award as **1 of 2** Sun Life case winners out of **300+** participants for creating an intuitive and educational investment tool.
- Integrated stock data dynamically and built **2** interactive candlestick and histogram charts using yfinance and Plotly to simulate portfolio returns and allow users to explore the performance and risk of **100,000+** stocks.

**Voice Synthesis AI**

**Next.js, React, TailwindCSS, AWS S3, PostgreSQL, Drizzle, ElevenLabs**

[GitHub Link](#)

- Reduced video creation time by developing a **full-stack AI voice-over generator** that processes **100+ videos daily**, implementing **Next.js 19** server components and integrating **Google Gemini** and **ElevenLabs** APIs.
- Designed a **scalable infrastructure** using **AWS S3** for media storage and **Neon PostgreSQL** with **Drizzle ORM**, implementing efficient request handling and data management for **concurrent users**.
- Increased user engagement by **40%** through implementing an intuitive UI with **TailwindCSS** and **shadcn/ui**, featuring auto-captioning, voice style customization, and theme switching, resulting in **85%** positive user feedback.

## Education

**University of Waterloo**, Bachelors of Computing & Financial Management (Honors)

Sep 2024 to  
Apr 2029

- Majors:** Computer Science, Accounting & Finance **cGPA: 3.84/4.00**
- Relevant Coursework:** Algorithm Design and Data Structures (C), Techniques for Software Development (Git, Bash, Linux), Financial Markets & Data Analytics (Python), Designing Programs (Racket)