

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

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

Experience

Agile Creative Labs Inc., Software Engineering Intern

Ottawa, ON

Feb 2025 to

present

1 month

- Engineered **RESTful APIs (Node.js/Express)** to support **CRUD operations** for rewards systems and user dashboards, reducing current **API response latency by 30%** through query optimization and caching strategies.
- Spearheaded the adoption of **MVC architecture** and MySQL to **modularize** front-end components **with Cordova**, separating data logic, UI rendering, and user interactions. This improved code maintainability by **40%** through scaffolding scripts and streamlined collaboration across cross-functional Scrum teams.

Stealth Startup, Software Engineer

Toronto, ON

Jan 2025 to

present

2 months

- Designed **horizontally scalable relational schema** using **Supabase's Postgres implementation** with **ACID-compliant** transactions, optimizing query performance latency for **1000+ concurrent user sessions**.
- Engineered distributed video rendering pipeline leveraging Remotion's composable architecture, achieving **35% throughput improvement** via parallelized asset processing and cache-aware resource allocation.

Canada Cartage System Limited, Telecommunications Consultant Intern

Toronto, ON

Jun 2023 to

Aug 2023

2 months

- 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**.
- 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.

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 14** 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**.

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)