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
- Engineered **RESTful APIs (Node.js/Express)** to support **CRUD operations** for rewards systems and user dash-   present
  boards, reducing current **API response latency by 30%** through query optimization and caching strategies.   1 month
- Spearheaded the adoption of **MVC architecture** and MySQL to **modularize** front-end components **with Cor-
  dova**, 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
- Designed **horizontally scalable relational schema** using **Supabase's Postgres implementation** with **ACID-   present
  compliant** transactions, optimizing query performance latency for **1000+ concurrent user sessions**.   2 months
- 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
- **Implemented a database management system** in Python for Android device identification codes and stream-   Aug 2023
  lined application installations using Samsung Knox, improving scalability across **35+ regional offices**.   2 months
- **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 analyz-
  ing 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, help-
  ing 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 edu-
  cational 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 Develop-
  ment (Git, Bash, Linux), Financial Markets & Data Analytics (Python), Designing Programs (Racket)