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 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**.
- 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)