



SYED TAHA FAISAL

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Skills

Languages & Frameworks	Python, SQL, Go, Javascript, C#, Tensorflow, YOLOv8, LangChain, N8N, Pandas, NumPy, Next.js, React, TailwindCSS, Flask, Databricks
Databases	Microsoft SQL Server, Pinecone, Azure SQL Database, MongoDB
Cloud & Automation	Azure (Functions, App Services, Bicep, DevOps), Docker, Git
Testing	LangSmith, Playwright, Jest, Postman, Pytest

Experience

Software Developer Intern | *Government of Ontario*

Sep 2024 - Apr 2025

- Built internal tools and platform components to **automate and standardize cloud infrastructure provisioning** across ministries using Azure DevOps, improving deployment speed and reducing manual setup.
- Created reusable deployment templates and configuration standards for .NET 8 and React applications, enabling consistent and secure rollouts via Azure Web Apps and Functions.
- Contributed in developing an **internal AI-powered chatbot** using LangChain and Retrieval-Augmented Generation (RAG), enabling secure, context-aware responses to internal knowledge queries within a private cloud environment.

Data Engineering Intern | *Naryant*

May 2024 - Aug 2024

- Built a scalable **data migration pipeline** to extract, clean, and restructure content from a legacy client platform, significantly reducing manual effort and **saving over \$16,000** in operational costs.
- Wrote and deployed custom Python ETL scripts to transform raw data into consistent, structured formats for downstream consumption, ensuring high data accuracy and compatibility across systems.
- Combined Selenium-based UI automation with backend data validation checks to ensure migrated content was accurately displayed and correctly mapped across systems.

Data Scientist Intern | *Locomobi World Inc.*

Sep 2023 - Apr 2024

- Worked alongside multiple teams to design and implement a comprehensive software solution for **vehicle identification and tracking**, significantly enhancing operational efficiency.
- Applied transformer-based models for object detection (YOLOv8) and image analysis; gained foundational experience transferable to NLP and LLM-based applications for classification and tagging.
- Developed efficient Python scripts using NumPy and Pandas for streamlined data analysis, employing parallel processing to expedite the handling of large datasets, boosting system performance and project outcomes.

Projects

PitchPerfect

[[Website](#) | [Codebase](#)]

- Engineered an AI-driven interview coaching platform using ASP.NET Core MVC, empowering job seekers with data-driven insights to enhance communication.
- Designed a serverless architecture with Azure Functions to asynchronously process interview responses, ensuring seamless scalability and efficiency.
- Integrated Azure Cognitive Services (Speech-to-Text) and OpenAI's GPT model to deliver deep linguistic and tonal analysis, providing comprehensive feedback post-interview.
- Implemented Stripe payment processing to support a premium tier, ensuring secure transactions and a smooth user experience.

AlphabetQuiz

[[Demo](#) | [Github](#)]

- Developed an unsupervised learning model using TensorFlow and deployed it via Flask, enabling real-time recognition of handwritten alphabet input.
- Applied image classification techniques to process and categorize user drawings, leveraging a labeled dataset to achieve accurate and consistent predictions.
- Implemented detailed performance evaluation through a confusion matrix and used matplotlib and seaborn for clear visualization of classification metrics and model insights.

Education

Bachelor of Computer Science (co-op) - BCS

April 2025

Sheridan College | GPA: 3.6

Oakville, ON

- Relevant Coursework: Data Structures & Algorithms, Database Management, Distributed & Parallel Computing
- Extracurricular: Sheridan CS Club Executive, Applied Computing Tutor, NSERC Innovation Award Nominee