

Hashir Ahmed

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EDUCATION

Software Engineering, University of Calgary 2018 – 2023 | Calgary, Canada
• *Bachelor of Science in Software Engineering with Distinction.*

SKILLS

Programming (Java, C/C++, C#, HTML/CSS, MySQL, JavaScript, PHP, Python, PostgreSQL, MongoDB, REST APIs)

Frameworks (Node.js, Express.js, Spring, Spring Boot, JUnit, OpenGL, Symfony, Twig, React.js, Hadoop, Spark)

Developer Tools (Git/Github, Visual Studio, Azure Machine Learning, ML Canvas, Azure Cloud, Tensorflow, Agile/SCRUM, Databricks, Postman, Docker)

PROFESSIONAL EXPERIENCE

Associate Machine Learning Developer, AltaML | Invent Team May 2023 – Sep 2023

- Designed, built, and optimized an **ETL pipeline** in **Python** to codify and automate the ongoing Machine Learning (ML) use case for a large energy company, forecasting churn rates of over **15 million customers** using internal data and contemporary **ML models** such as **Logistic Regression**, **Random Forest**, **Naive Bayes classifier** and more. The best results were **~83% accuracy**. The project would help increase the yearly revenue by up to **5 million dollars**.
- Further contributed to ETL pipeline processes by crafting **SQL scripts** to generate client data, facilitating smooth and efficient data integration
- Collaborated in developing an innovative copilot tool using **Prompt Engineering** with cutting-edge **LLM** technology, the **text-DaVinci-003** model from OpenAI, to enhance non-technical employees' interactions with **Airtable**.
- Leveraged **Azure Cloud** Machine Learning services to develop machine learning models, manage and **test ETL pipelines**, perform data warehousing, and conduct experiments.

Software Quality Assurance Intern, May 2021 – May 2022

Mobility Quotient Inc. | Data Analytics and QA

- Spearheaded the design and execution of comprehensive test plans, employing **Selenium** to automate testing processes for web pages. Conducted rigorous **testing of critical APIs** to ensure functional validation and optimal performance
- Conducted in-depth **data analysis and web scraping** on commercial websites. Extracted encoded product data from web source codes and utilized **XML** sitemaps to assess the feasibility of aggregating data for the Sokolocal project.
- Played a pivotal role in the Sokolocal project, contributing to the addition of over **2 million products** from more than 1000 local businesses across **30 cities** in North America. This involved meticulous data gathering and integration efforts.
- Collaborated seamlessly on the redesign of the Sokolocal commercial website. Leveraged the **Symfony framework**, **PHP**, and **Bootstrap** to implement responsive design, enhancing the overall user experience within the **XAMPP stack** for local development and testing purposes.

PROJECTS

EduConnect, CalgaryHacks Hackathon Feb 2021

- Created a multi-functional full-stack web app for students using **HTML/CSS/Bootstrap4** for the front end and **JavaScript/Node.js/Express.js** for the back end. User's account data and course schedule information are stored in a **MongoDB** Database.
- Created an integrated AI chatbot by leveraging the Google Cloud DialogFlow API and the complimentary discord bot was created using **JavaScript/Discord.js**.

VIVI Art Gallery Dec 2020

- Spearheaded the development of VIVI Art Gallery, a backend **REST API** database management system project, utilizing **PHP** and **MySQL**.
- Implemented standard **CRUD** operations for over 15 models, enhancing the system's functionality and usability.
- Crafted comprehensive **SQL** scripts for the creation and population of database tables, ensuring robust data management.
- Conducted rigorous **API testing** using tools like **Postman** to validate and optimize the functionality and performance of the system.