

# 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** 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**.
- Collaborated in developing an innovative copilot tool using cutting-edge **LLM (Language Model)** 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.
- Coordinated and **led the team** to ensure deliverables were of high quality and on time.

**Software Quality Assurance Intern**,

May 2021 – May 2022

Mobility Quotient Inc. | Data Analytics and QA

- Conducted Unit testing on **10+ software**, including websites and mobile apps.
- Designed and executed **2000+ tests** on usability, recorded errors and bugs, and ensured user expectations were met.
- Reported over **1000+ bugs** from evaluating and testing software to project-specific requirements.
- Conducted **rigorous testing** of **critical APIs** to ensure functional validation and optimal performance of the application.

## PROJECTS

**Flexiform**, Engineering Capstone Design Project

Sep 2022 – Apr 2023

- Developed a web-based computer-aided design (**CAD**) **tool** with a team of 5 engineers to enhance prosthetic **mesh editing** for hand amputees.
- Utilized **Unity game engine, C#, and WebGL** for web-based implementation.
- Implemented mesh filling and casing features, and designed an **intuitive UI** for seamless mesh modification.
- **Result:** Developed a valuable tool bridging technology and healthcare, showcasing **strong problem-solving** and software development skills.

**ML Classification on Medical dataset**

Dec 2022

- Developed **classification machine learning models** to predict the need for diabetes medication, contributing to improved patient care and treatment outcomes
- **Orchestrated ML workflows**, including **data processing**, exploratory data analysis, and model training, utilizing **Databricks** and **Apache Spark** to process large medical datasets efficiently
- Applied hyperparameter tuning techniques to optimize model performance, resulting in more accurate predictions

**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**.