

ZAID AHMED

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EDUCATION

Bachelor of Science, Software Engineering + Bachelor of Commerce, Business

Expected Graduation: May 2026

University of Calgary

SKILLS

- **Languages:** Python, C, C++, C#, Java, SQL, HTML, JavaScript
- **Frameworks/Libraries:** Keras, TensorFlow, Pandas, Polars, Fusion360, Unity, MRTK, Node.js, React.js, Three.js, Tailwind, Bootstrap, Dagster
- **Other Technologies:** CSS, JSON, YAML, Excel, Adobe Suite, Fusion 360, Blender

WORK EXPERIENCE

Software Engineer Co-op - Development and Production Data Solutions

Cenovus Energy

January 2024 – December 2024

- Collaborated with Canadian Oil Sands and Thermal Heavy Oil Operations Development and Production teams to understand their data needs and challenges.
- Designed and developed end-to-end data and analytics solutions tailored to the requirements of different teams.
- Implemented full-stack development solutions, including full-stack frameworks such as Ruby on Rails.
- Performed data engineering tasks such as data ingestion, transformation, and storage optimization.
- Orchestrated data pipelines for efficient and reliable data processing using tools such as Dagster.
- Conducted analysis and reporting on large datasets to derive actionable insights.
- Applied machine learning and statistical inference techniques to solve complex business problems.
- Documented processes, workflows, and technical implementations to ensure knowledge sharing and maintain accurate records.
- Participated in training sessions and workshops to enable teams in adopting and effectively utilizing data solutions.

Software Deployment Intern

Vertical City

July 2023 – August 2023

- Deployed and maintained Ubuntu 20 on elevator/lobby screens, ensuring optimal functionality and performance.
- Executed comprehensive documentation processes, fostering organized record-keeping for future reference and audits.
- Worked closely with the Lead of Property Support to establish and maintain robust communication channels, facilitating seamless updates on elevator screens.
- Proactively addressed any technical issues, employing a problem-solving approach to minimize downtime and ensure uninterrupted elevator screen operations.

PROJECTS

BraVRy

- Developed a virtual reality exposure therapy simulation to help the millions of Canadians suffering from anxiety-related illnesses.
- Uses cutting-edge VR technology, comprehensive biotracking and evidence-based exposure therapy protocols.
- Developed using the Meta Quest 2 and Unity Editor for natHacks 2023, Canada's largest neurotech hackathon.
- Received 2nd place along with seed funding and in-kind support for the project.
- [LinkedIn Post](#)
- Pitched for Ontario Brain Institute's Neurotech Competition at Inventures 2024, a conference with over 4000 attendees
- [LinkedIn Post](#)

Swipe-Talk Augmented Reality Project

- Created a “swipe to talk” hand-movement tracking application in mixed reality using the Microsoft HoloLens 2 and Unity Editor in less than 24 hours.
- Designed for non-speaking individuals with autism who may have difficulty with gross motor skills.
- Completed for the Institute of Electrical and Electronics Engineers (IEEE) SIGHT ProjectVoice Hackathon.
- Received 1st place along with a monetary prize.
- [Video Demonstration](#)

Alzheimer’s Disease Machine Learning Model

- Created a machine learning classification model which takes in MRI scans as well as patient data and diagnoses patients with 90% accuracy.
- Used Python, Pandas, Keras, and TensorFlow along with the ResNet-50 convolutional neural network.
- [GitHub Repository](#)

Snow Pro

- Developed a 2D platformer using Unity and C# scripts.
- Contains Microsoft Azure PlayFab backend for live leaderboard tracking.
- [GitHub Repository](#)

Portfolio Website

- Developed my own personal portfolio website with React, Three.js, and Vite.
- Used Blender to generate my own 3D renders.
- [Zaid’s Portfolio](#)

Lotion – Notes App

- A fully-functional note-taking app built in React.
- Uses Google Authentication as well as AWS DynamoDB Backend.
- Built using Terraform and Lambda handler functions.
- [Lotion App](#)

AWARDS

- 1st Place at IEEE SIGHT ProjectVoice Hackathon - September 2023 ([LinkedIn Post](#))
- 2nd Place at NeurAlbertaTech natHacks Hackathon - November 2023 ([News Article](#))
- 3rd Place at MedTech HackMedTech Hackathon - February 2023 ([LinkedIn Post](#))
- Finalist for Ontario Brain Institute Pitch Competition - May 2024 ([LinkedIn Post](#))

VOLUNTEER EXPERIENCES

Mentor

January 2022 – January 2023

Schulich Ignite

- Taught students how to program in Python using the processing library.
- Debugged code and provided individualized project advice.
- Marked code submissions, providing feedback and advice.

VP Operations and Finance

May 2023 – Present

Robogals UCalgary

- Helping the advancement of representation in the STEM fields through volunteering for and operating the club.
- Handling large-scale financial transactions and sponsor agreements.
- Developing budget guidelines and forecasting the fiscal year.

High School Math and Science Tutor

May 2022 – May 2023

YMCA Calgary

- Helped students find their academic potential as a tutor.
- Provided one-on-one tutoring as well as group lessons.
- Helped students with diploma prep crash course.