

# AMEER MUSHANI

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## EDUCATION

### University of Guelph

Bachelor of Computing, Software Engineering Major

Guelph, ON, Canada

Sep. 2019 – May 2024

## EXPERIENCE

### Cloud Orchestration Developer

Jan. 2023 – Aug. 2023

SAP

Waterloo, ON

- Worked on developing and maintaining Kubernetes operators to support our live database service HANA Datalake
- Regularly updated Python repositories to operate on live Kubernetes resources
- Led the development on a large-scale Python script to migrate all customer's Datalake instances to the latest version
- Developed shell scripts to automate the deployment of local changes to a containerized environment which reduced deployment time by 3 minutes
- Coordinated communication with colleagues from across the globe to resolve outstanding bugs

### Robotics Research Assitant

May 2022 – Aug. 2022

University of Guelph Robotics Institute

Guelph, ON

- Solely created a full stack system to display data collected by one of the lab's robots
- Developed a Front-End in Vue.js that displayed data points on an interactive map as well as parameterized statistics using Chart.js
- Developed API endpoints using FastAPI and SQLAlchemy
- Hosted Backend and PostgreSQL database on AWS EC2 instance for consistent uptime

### Full Stack Developer Intern

June 2021 – December 2021

Competers Inc.

Guelph, ON

- Worked regularly in an Angular environment to design and implement pages connected to AWS endpoints and MySQL database for authentication
- Wrote several custom MySQL queries to be displayed in Angular, providing clients with parameterized statistics of their usage data
- Developed a VB.NET email parser to handle Locate requests for American customers
- Regularly worked in VB.NET on our main software, Utilocate, which has over 1000 daily users

## PROJECTS

### Flappy Brain | Javascript, p5.js

- Simplified version of Flappy Bird mobile game designed to show NEAT genetic algorithm
- Algorithm can solve the game within 10 minutes of learning
- Developed quickly using p5.js for easy implementation
- Link to project: <https://ameer-mushani.github.io/flappy-brain/>

### My Shell (Linux Shell) | C, Linux

- Fully functional shell developed in C
- Supports piping, input redirection, and changing directories
- Uses concurrent processes for parallel execution

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL, JavaScript / Typescript, Visual Basic, SQL, Dart + Flutter

**Frameworks:** Kubernetes, React, Vue, Node.js, FastAPI, AWS S3, AWS Lambda, Helm

**Developer Tools:** Linux, Git, Docker, VS Code, Visual Studio, JIRA