

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

- Developed and maintained Kubernetes operators in Python to support our SaaS database service
- Interfaced directly with AWS, Azure, and GCP
- 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
- Utilized Grafana and Prometheus to observe and analyze status of deployed pods
- Maintained CI/CD pipelines using Jenkins for automated testing and deployment

Full Stack Developer Research Assistant

May 2022 – Aug. 2022

University of Guelph Robotics Institute

Guelph, ON

- Solely created a full stack system to visualize 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 Python 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 fast implementation
- Link to project: <https://ameer-mushani.github.io/flappy-brain/>

DJ Z | Python

- Developed a bot for Discord capable of playing music via a YouTube URL
- Uses Discord's new application commands API
- Published a tutorial for the project on [Medium](#)

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, Docker, React, Vue, Node.js, FastAPI, AWS S3, AWS Lambda, Helm

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