

# Farbod Mohammadzadeh

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## Education

Bachelor of Applied Science in Engineering Science, University of Toronto

*September 2021 – April 2026*

- Pursuing a bachelor's degree in one of the **top engineering programs** in the world with a major in **Machine Intelligence**.
- Completed course work in **Algorithms & Data Structures** using **C++**.
- Participated in the school culture and making **meaningful** relationships and **connections**.
- Co-founded a club for billiards and que sports.

## Experiences

DevOps Software Engineer at Advanced Micro Devices, Inc. (AMD), Markham

*May 2024 – August 2025*

- Supporting developers by automating workflows using GitHub Apps written in **TypeScript**.
- Participating in **Agile development** by taking part in scrum and sprint planning meetings.
- Contributing by developing features, fixing bugs, and completing maintenance tasks.
- Implemented a new **automated testing** infrastructure for GitHub Apps project.
- Improving documentation by using **Docs-as-Code** principals with **Jekyll** and **Markdown**.
- Helping migrate codebase from local infrastructure to **cloud hosting** environment.
- Initiated **dependency management** for GitHub Apps project.
- Worked with **Kubernetes** to ensure **high availability** of deployed app.

Software Engineer at Alternative Die Cutting Inc.

*May 2023 – May 2024*

- Spearheaded development for the **rewrite** of an **internal database** website.
- Migrated from a static website to a **dynamic web app**.
- Saved company **over \$5,000 yearly** based on knowledge of web hosting rates.
- Improved load speeds **150%** by switching to a **modular structure**.
- **Containerized** codebase using **Docker** and Docker Compose.
- Reconfigured DNS records and set up **HTTPS certification** for new domain names.
- Replaced frontend infrastructure with **React.js** in addition to **Vite.js** for faster bundling using **native ES modules** to ensure smoother development.
- Implemented **Redux** in the frontend for easier **state management**.
- Designed a **REST API** using **Express.js** and connected it to a **MongoDB** database.
- Utilized **Mongoose.js** for **data modeling**, validation, and query building.
- Wrote **unit tests** with **Mocha.js** with more than **80% code coverage**.
- Set up a **CD/CI pipeline** using **GitHub Actions** for automated testing and continuous deployment to cloud hosting platform.
- Used DigitalOcean **cloud hosting** and a **NGINX** reverse proxy to direct traffic for the app.

Lead Full-Stack Engineer at University of Toronto Engineering Orientation Committee

*May 2022 - September 2023*

- Added **automated testing** to backend API using **Mocha** and **GitHub Actions**.
- Implemented **AWS Simple Email Service (SES)** to send emails programmatically.
- Modernized payments infrastructure using **Stripe API** and Checkouts.
- Used **Redis** to allow for **asynchronous queue** processing in backend.
- Organized all new **documentation system** and integrated it into the CD/CI pipeline.
- Updated frontend with **dynamic imports** to improve load speeds **up to 50%**.

## Links:

[GitHub](#)

[LinkedIn](#)

## Programming Languages:

JavaScript & TypeScript

HTML5 & CSS3

SQL

Python

C & C++

Java

## Technologies:

Docker

Kubernetes

React.js

Express.js

MongoDB

Redis

AWS Services

Stripe

## Tools:

VS Code

Linux

Git & GitHub

Agile Development

Chrome Dev Tools

GitHub Actions & Apps

Jenkins

SSH

## Spoken Languages:

English – fluent

Farsi – fluent

## Hobbies:

Archery

Billiards

Biking

Bartending