

Magdy Hafez *Software Engineer Student*

☎ (825)-558-6015 📍 Calgary, AB, Canada 🖱 Portfolio in Magdy Hafez 🐦 Magdy Hafez

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PROFILE

Third-year Software Engineering student at the University of Calgary with a specialized focus on networking and cybersecurity. My portfolio includes a variety of polished web and mobile applications, demonstrating an attention to detail that is foundational to quality software development. With a proven academic record and project experience, I thrive in high-stakes, fast-paced environments. I possess strong communication skills and am highly proficient in team collaboration. My dedication to hard work and efficient learning enables me to quickly adapt to new technologies, making me a versatile asset to any software development team.

SKILLS

Programming Languages (Python, Java, C, C++, Javascript / TypeScript),
Web Development (HTML5/CSS3, Django, React, Express.js/Node.js, REST API, Stripe.js, GraphQL, Deno.js, PHP, JQuery, Figma UI),
App Development (React Native), **CSS Frameworks** (Bulma, Bootstrap, Tailwind, Chakra UI),
Database Management (MySQL, MongoDB), **Cloud Services** (AWS Lamda, DynamoDB, Terraform),
Operating Systems (Windows, Linux), **Version Control** (Git, GitHub), **Software Tools** (Docker, MS Office Suite),
Soft Skills (Leadership, Conflict Management, Debugging, Testing)

EXPERIENCE

Barista Trainer

Aug 2022 – Sep 2023 | Calgary, Canada

ARAMARK / University Of Calgary

- Led team training and quickly mastered new software, highlighting project leadership and tech savviness.
- Optimized workflows and managed multitasking, relevant for coding and debugging tasks.
- Excelled in customer service and handled peak hours, underscoring strong communication and deadline adherence.

Volunteer as Fire Warden

Sep 2022 – May 2023 | Calgary, Canada

University Of Calgary

- Served as a Fire Warden in a residential setting, enhancing my leadership and emergency management skills, applicable for team management and crisis resolution in tech projects.

Sales Associate

Jul 2022 – Sep 2022 | Calgary, Canada

Shaganappi Mediterranean Market

- Managed inventory and customer relations while adeptly using POS systems, showcasing data-driven decision-making and technology adaptation skills.

PROJECTS

Chef's Kiss

Cooking website

An integrated culinary platform built with React and Django, featuring AWS Lambda for backend processing and styled with Vanilla CSS. The platform offers Google sign-in, personalized profiles, and a vibrant community. Users can search recipes by ingredients, receive algorithmically tailored recommendations, and share their own culinary creations

Lotion

note taking app

A robust note-taking web application built with React, featuring AWS-backed storage for notes and Django-powered schedule planning functionalities

Last Show

obituary-creator-Website

This is an Obituary Creator that I made using React and CSS for frontend and AWS and Terraform was used for the backend and It is Chatgpt intergrated with Text-to-Speech.

ZOO Schedule Builder

This is a JAVA project about building a schedule for a zoo. It is for the supervisor to build a schedule for the zookeepers and the animals. The supervisor can add, delete, and update the schedule and request additional volunteer if needed based on the scheduler and uses Swing for the GUI and MySQL for the database.

Museum-Project

This is a Python project that I made for a museum. It allows the user to create, edit, and delete exhibits. And also create user, edit user's privileges, and delete users. It uses command line to run the program and MySQL for the database.

EDUCATION

Bachelors Of Science In Software Engineering
University Of Calgary

Sep 2021 – present | Calgary, Canada

CERTIFICATES

Engineering Leadership (Level 1) | **Engineering Leadership** (Level 2)

COURSES

Full stack web development Jan 2023 – May 2023

ENSF 381

Full-Stack Development: Comprehensive study covering front-end and back-end design, libraries, frameworks, and DevOps principles. Introduced to CI/CD in an Agile context. Achieved a perfect score of A+ (100%).

Object-oriented Principal software engineer Jan 2023 – May 2023

ENSF 380

Object-Oriented Design: Focused on analysis, inheritance, and polymorphism. Application of common data structures, with best practices in testing, debugging, and documentation. Earned an A (92%).

Practical Data structure and algorithm Jan 2023 – May 2023

ENSF 338

Data Structures & Algorithms: Mastered stacks, queues, lists, heaps, hash tables, trees, and graphs. Skilled in sorting, searching, and complexity analysis. Applications in software development. Achieved an A+ (98%).

Software engineering practices for Data Management Sep 2022 – Dec 2022

ENSF 300

Software Engineering Practices: Individual software processes, debugging, and command-line skills. Database fundamentals including SQL, data models, and integrity constraints. Focus on data privacy and ethics. Achieved an A+ (99%).

Programming fundamentals for software and Computer Sep 2022 – Dec 2022

ENSF 337

C Programming: Pointers, memory management, file manipulation. Introduction to recursion and object-oriented languages. Earned an A- (85%).

Embedded Programming Sep 2023 – Dec 2023

ENSF 460

Embedded Systems: Real-time applications, computer architecture, and microcontrollers. Robotics I/O control, debugging, and software practices. Interrupt and exception-handling strategies.

Network Systems Sep 2023 – Dec 2023

ENSF 462

Network Principles: Layered protocols, socket programming, and secure distributed frameworks. Intro to software-defined networks.

Principles of Software Design Sep 2023 – Dec 2023

ENSF 480

Software Dev Lifecycles: Design methods for scalable, quality software. Covers abstraction, modularity, and software modeling. Focus on non-functional design and individual skills.

Applied Operating Systems Sep 2023 – Dec 2023

ENSF 461

Core OS Principles: Virtual memory, I/O, CPU scheduling. Process & thread management. Persistent storage. Concurrency techniques. Security basics.

INTERESTS

- Coding
- Gym
- Blogging

REFERENCES

Rajinder Kaur, Assistant General Manager, ARAMARK
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