

Omar Kamal

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EDUCATION

University of Alberta

Faculty of Engineering, BSc in Materials Engineering

2017 – 2023

Edmonton, AB

TECHNICAL SKILLS

Languages: HTML/CSS, JavaScript, TypeScript, Go, C#, Rust, Python

Frameworks: Node.js, .NET, jQuery, JSX, Angular, React, Next, Vue, Nuxt, Astro, Express.js, Koa.js

Databases: SQL/MariaDB, MongoDB

Tooling/Platforms: Git, Docker, DigitalOcean, AWS, Vercel, bash, powershell, Postman, ESLint, Golang Testing, GitHub Actions, Figma

EXPERIENCE

Corsace | General Organizer + Lead Developer

corsace.io

2015 – Current

Edmonton, AB

- Successfully led a team of **100+ volunteers**, resulting in increased event frequency and **5000+ viewer streams**.
- Developed multiple websites and a **central proxy API** using Vue + Nuxt, Koa.js, typeorm, and MariaDB for running various Corsace projects.
- Containerized using **Docker** and deployed in an AWS EC2 instance to smoothly run the websites in production.
- Implemented OAuth, enhancing user convenience by allowing **seamless login across multiple platforms**.

Technical Assistant | Medical Records Bookkeeping

Shifa Medical Clinic

2014 – 2017

Edmonton, AB

- Maintaining the clinic's patient record database in **MySQL** to ensure data was clean, organized, and secure, and following protocols established via PIPEDA.
- Securely transferred patient records as necessary for referral clinics, hospitals, and pharmacies.
- Handled any database connection issues experienced by staff with regards to accessing and updating patient records.

PROJECTS

Difficulty Calculation Development

osu.ppy.sh

2017 – 2019

- Improved the game's difficulty calculation, leading to more balanced gameplay for **30 million+ users**.
- Developed in C# using **.NET Core** and **OpenTK**, and a small portion of C++ to work on the difficulty calculation.
- Incorporated principles from Fitts' Law into the calculation, enhancing gameplay balance and challenge predictability.
- Ensure results were optimal by communicating back and forth with key stakeholders.

Discord Chat Bot

[GitHub Link](#)

2019 – 2022

- Implemented a chat bot using **Go** in the social messaging platform Discord, which is used regularly by **1000+ users** across 200 servers.
- Created a framework to simplify chat command creation.
- Deployed on AWS EC2 using an automated Buddy CI/CD pipeline and **CloudWatch** to ensure high availability with **99%+ up-time**.