Omar Kamal

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EDUCATION

University of Alberta

2017 - 2023

Faculty of Engineering, BSc in Materials Engineering

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

$\begin{array}{c} \textbf{Corsace} \mid \textbf{General Organizer} + \textbf{Lead Developer} \\ \textbf{corsace.io} \end{array}$

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

2014 - 2017

Shifa Medical Clinic

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

2017 - 2019

osu.ppy.sh

- 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

2019 - 2022

$\underline{GitHub\ Link}$

- 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.