Omar Kamal

587-938-0452 | Edmonton, AB | <u>okamal@ualberta.ca</u> | oykxf2@gmail.com | <u>vinxis.moe</u> | github.com/VINXIS

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 | Software Developer corsace.io

2015 – Current

Edmonton, AB

- Communicated with a large scale team, and improved organizational efficiency, resulting in 2x event frequency and 10-20x viewers for livestreams.
- Developed multiple **open source 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.

Shifa Medical Clinic | Technical Assistant

2014 - 2017

shifamedical clinic.com

Edmonton, AB

- Maintained and sanitized patient record database in MySQL to ensure 100% PIPEDA protocol compliance, and 3x faster patient data retrieval for doctors.
- Transferred patient records in a secured manner as necessary for referral clinics, hospitals, and pharmacies.
- Promptly managed various connection issues experienced by staff with \mathbf{SQL} databases and \mathbf{VPNs} and reduced connection issue rates by $\mathbf{10x}$.

PROJECTS

Difficulty Calculation Development

2017 - 2019

osu.ppy.sh

- Greatly improved the open source 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 improve difficulty calculation infrastructure.
- Incorporated principles from Fitts' Law into the calculation, vastly enhancing gameplay balance and challenge predictability.
- Ensure results were optimal by communicating back and forth with various key stakeholders.

Discord Chat Bot

2019 - 2022

<u>GitHub Link</u>

- Implemented an open source chat bot using **Go** in the social messaging platform Discord, which is used regularly by **1000+ users** across many discord servers.
- Created a streamlined chat command creation framework to easily create 100+ chat commands.
- Deployed on AWS EC2 using an automated Buddy CI/CD pipeline and CloudWatch to ensure high availability with 99.9%+ up-time.

EDUCATION

University of Alberta

2017 - 2023