Omar Kamal

587-938-0452 | Edmonton, AB | oykxf2@gmail.com | vinxis.moe | github.com/VINXIS

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, 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   2015 – Current
corsace.io   *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 – Current
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.**