Omar Kamal

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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 2015 – 2024
Software Developer | *corsace.io* *Edmonton, AB*
Git, Node, JS/TS, HTML/CSS, Vue/Nuxt, JSX, Astro, MariaDB, Koa.js/APIs, Docker, WSL
- Led a team of developers and designers to build high-performance platforms, resulting in a **20% increase in user engagement.**
- Developed web apps and a proxy API for a **60% reduction in management and development time.**
- Implemented robust **OAuth** systems, reducing average user login time by **40%** and enhancing user experience.
- Containerized and deployed on **AWS EC2**, achieving **10% server cost reduction.**

Shifa Medical Clinic 2014 – 2017
Technical Assistant | *shifamedicalclinic.com* *Edmonton, AB*
SQL/MySQL, bash, Powershell, Windows Server, VPNs, WSL, Proxy Servers
- Maintained and sanitized patient record database, ensuring **100% PIPEDA compliance** and **300% faster patient data retrieval** for doctors.
- Transferred patient records securely, improving data handling efficiency by **50%.**
- Resolved SQL and VPN connection issues for a **90% downtime reduction,** and enhancing team productivity.

PROJECTS

Difficulty Calculation Development 2017 – 2019
osu.ppy.sh
Git, .NET, C#, OpenTK, CI/CD, Python, DigitalOcean, Powershell
- Developed heuristic algorithms for an open source video game's difficulty estimation, improving gameplay balance for **30 million+ users** and increasing user retention by **15%.**
- Applied Fitts' Law, increasing user satisfaction and positive feedback by **60%.**
- Collaborated with stakeholders to ensure optimal algorithm performance and user experience, resulting in more efficient development cycles.

Discord Chat Bot 2019 – 2022
GitHub Link
Git, Go, AWS EC2, CI/CD, Github Actions, WSL, bash
- Implemented a chat bot on Discord used by **1000+ users** across multiple servers, increasing average server activity by **30%.**
- Developed a framework for creating **100+ chat commands,** speeding up command development by **80%.**
- Deployed using a **Buddy CI/CD** pipeline with **CloudWatch,** achieving **99.9%+ uptime** and reducing operational costs by **50%.**

EDUCATION

University of Alberta 2025 – Current
MSc in Mechanical Engineering *Edmonton, AB*

University of Alberta 2017 – 2023
BSc in Materials Engineering *Edmonton, AB*