Brett Reader

21239 89 Ave • Vancouver BC, V1M 2E2 • brett.reader@shaw.ca • 604-996-7192

Education

British Columbia Institute of Technology   **Vancouver, BC**
Diploma, Computer Science, Web and Mobile Option *with Distinction* - GPA: 3.7   2024
Finished top of class - Earned the Computer Systems Academic Award in Web & Mobile – Certificate

Experience

Powerex
Application Sustainment Developer (Co-op)   May 2023 – Dec 2023
- Led development of an ETL app that provided traders with data for their operations (Details NDA).
- Reduced application downtime by 20% by resolving 5 high severity issues and many other smaller issues.
- Collaborated with Business Analysts, Solution Architects, and end-users to ensure features delivered value to stakeholders.
- Developed and modified features for dozens of **C#** console and web applications
- Streamlined onboarding for future co-op students by creating technical documentation, reducing onboarding time by 30%.

Open Source Contributor
GoodBooks |Accounting System   Sept 2024 - Dec 2024
- Implemented **API-level data seeding** via DataSeeder class, leveraging **Entity-Framework** and existing architecture.
- Participated in code review sessions with the owner of the open source project for feedback on workflow of my solution.
- Collaborated with 3 devs to debug and test over 15 hours, resulting in a clean merge with no bugs.

Freelance Web Development   June 2024 – Present
Dynamite Goaltending | Goaltender Training Website
- Developed a responsive website using **React**, **TypeScript**, and **TailwindCSS.**
- Integrated **Azure Static Web Apps** for hosting and domain management and simplifying **CI/CD** workflows.
- Configured custom domain setup with **GoDaddy** and **Azure**.

visionfireandsafety.com | Company Website
- Delivered a responsive website using **Laravel** with system-dependent light/dark modes using **Tailwind CSS**, set up the domain from **Go Daddy**, and hosted on **Azure**.
- Maintained a 99.99% uptime by monitoring and maintaining the site post-launch

Projects

Moodzic | AI-Powered Music Generator | Full-Stack Project
- Designed and implemented a microservice architecture for an AI-powered MusicGen model run with **PyTorch**.
- Solved performance issues by leveraging GPU CUDA cores, improving compute time by 94%.
- Shared compute time solution with 2 other groups, resulting in the overall success of their project.
- Deployed an API gateway built with **JavaScript** and frontend services built with **HTML** and **TailwindCSS** on **Azure**.
- Implemented an **SQLite** database to manage user credentials and API usage metrics.
- Developed secure user account management features, achieving 100% successful password recovery requests, by implementing email-based password resets using **Nodemailer**.

Skills

Languages: Python, Java, .NET/C#, JavaScript, TypeScript, SQL, HTML, CSS
Frameworks: React, ASP.NET MVC
Tools: Node.JS, SSMS, Snowflake, Azure, Docker, Firebase
Version Control: Git, TFS