Briana Burton

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EDUCATION

Software Engineering Technology, *Ontario College Advanced Diploma*   January 2020 – May 2023
Conestoga College | Waterloo, ON, Canada

- **Relevant Courses:** Mobile Application Development, Web Development, Data Structures, Operating Systems, Advanced SQL.

HIGHLIGHTS OF QUALIFICATIONS

- Proficient in software design principles, **data structures**, **algorithms**, object-oriented programming, and project management.
- Experienced with **embedded system development** in Linux and Windows environments using STM32 based MCUs.
- Ability to design, model, implement and maintain a **database** for a software system using **MySQL**, **CockroachDB**, & **SQL Server**.

EXPERIENCE

Co-Founder | Software Developer   January 2022 – Present
HOOD – www.tryhood.com | Guelph, ON, Canada

- Co-founded a software company that provides a way to share carpool routes via a cross-platform **mobile application**.
- Designed front-end with **30+ unique interfaces** for the Xamarin HOOD **mobile application** using Adobe XD, XAML, C#.
- Spearheaded demos leading to partnership with **Microsoft for Startups**, the **Accelerator Center**, and **Conestoga College**.

PROJECTS

Windows Service TCP/IP HiLo Guessing Game   December 2021
https://github.com/bburton0334/hilo_game_windows_service   **XAML, C#, Azure, WPF**

- Developed a guessing game & **multi-threaded** server running as a **Windows Service** hosted on a **Azure** virtual machine.
- Created the logic behind the TCP/IP protocol which allowed for communication between **multiple clients** and 1 server.
- Built client in WPF with a back-end in C# & created a C# Windows Service server that **external clients** are connected to.

SET Pizza Shop   December 2021
https://github.com/bburton0334/set_pizza_shop   **C#, JavaScript, ASP.NET, jQuery, JSON, AJAX, HTML/CSS**

- Designed & coded a web-based pizza "shop" using **2 back-ends** in C# & JavaScript utilizing jQuery, JSON, AJAX, ASP.NET.
- Developed **100% accurate real-time price calculations** with visual cost updates to the user when add-ons are selected.

Transportation Management System   October 2021 – December 2021
https://vimeo.com/745878235   **C#, .NET Framework, WPF, MySQL, XAML, SCRUM**

- Designed a **full-fledged** C# application which calculates transport costs & travel distance using **MySQL database** info.
- Collaborated with a team of 4 using **Agile** development practices to design & develop the system over a 2-month period.
- Independently designed & developed front-end in **WPF & C#** to create GUIs for **3 unique** user types: Buyer, Admin, & Planner.
- Coded **20 different** interfaces allowing log viewing, cost calculation, database modification, and transportation calculations.
- Used **object-oriented** programming principles and detected program bugs through **test-driven development**.

Web-Based "Notepad" Text Editor   December 2021
https://github.com/bburton0334/asp.net_text_editor   **JavaScript, ASP.NET, C#, jQuery, JSON, AJAX, HTML/CSS**

- Designed a text editor in ASP.NET with jQuery, AJAX to communicate to the C# & JavaScript logic to **open, edit, save** files.
- Created **real-time updates** allowing user files to be seen visually in a drop-down list without needing to refresh the page.

CERTIFICATES

July 2022	**IBM,** IBM Applied AI Professional Certificate	**Cert ID: ZU3FHJZMHFMV**
July 2022	**University of Colorado,** Homeland Security and Cybersecurity Specialization	**Cert ID: X5EFBNX82BPD**
Sept 2022	**Goldman Sachs,** Goldman Sachs FinTech Engineering	**Cert ID: uJ4yTGnQHSgkqPgbY**

SKILLS

Programming Languages: Python, JavaScript, C, C++, C#, Java, PHP, SQL, HTML/CSS, ARM assembly, 6808 assembly
Tools & Platforms: Azure, AWS, Heroku, Linux, MySQL, SQLite, SQL Server, CockroachDB, Android Studio, Git/GitHub
Frameworks & Libraries: Bootstrap, jQuery, .NET Framework, Android SDK, Ruby on Rails
Other Skills: Agile Methodologies, User Interface, Test Driven Development, Common Gateway Interface