Briana Burton

Waterloo, ON, Canada | brianareburton@gmail.com | 519-778-6316 | LinkedIn | www.briana.cc | GitHub

EDUCATION

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

- Relevant Courses: Mobile Development, Advanced Web Frameworks, Data Structures, Advanced SQL, IoT, Embedded Systems
- Extra Curriculars: Client of the Conestoga Entrepreneurship Collective, member of the **Google Developer Student Club**

EXPERIENCE

Software Developer Intern   December 2022 – Present
GAO Tek Inc. | Toronto, Ontario

- Collaborated effectively in an **Agile** team, while using **Git** for version control, to develop Linux-based embedded system software utilizing advanced **C/C++** to successfully integrate a range of sophisticated **RFID** technologies into various internal applications.
- Applied a diverse range of debugging techniques, including error handling and static code analysis, while leveraging industry-standard tools such as GDB, Cppcheck, LLDB, and SonarQube, resulting in an **34% decrease** in user complaints.

Software Developer   September 2022 – Present
Freelance | Waterloo, Ontario

- Collaborated with clients to gather requirements and design custom solutions, leading to a **100%** success rate in project delivery.
- Enhanced test coverage for **AngularJS** and **Flask** applications by developing comprehensive unit tests and end-to-end test cases utilizing advanced testing tools such as Selenium and Jasmine, resulting in a coverage increase to **79%** and **88%**, respectively.
- Improved accessibility to **100%** by delivering AODA **WCAG 2.0 level AA** compliant JavaScript and HTML5 front-end for a client.

Programmer Mentee   October 2022 – January 2023
Ubisoft | Toronto, Ontario

- Selected to participate in Ubisoft Toronto's DAU (Develop at Ubisoft) mentorship program in the programming discipline.
- Collaborated with mentors to successfully develop complex **C++** projects, leveraging APIs like OpenGL to achieve optimal results.
- Acquired valuable insights from experienced developers and gained hands-on experience in **AAA** video game development.

PROJECTS

Windows Service TCP/IP Hi-Lo Guessing Game | https://github.com/bburton0334/hilo_game_windows_service

- Built a HiLo game with **WPF** in **C#** that communicated to an **Azure** hosted **multi-threaded** server that ran as a Windows Service.
- Developed the **TCP/IP** protocol which enabled communication between **multiple clients** and 1 server to allow mutiple players.
- Designed a packet format with a delimited string to organize current game info to prevent data loss when the connection ends.

Transportation Management System | https://vimeo.com/745878235

- Designed a **full-fledged .NET 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.
- Developed **20+ WPF/C#** interfaces allowing log viewing, cost calculation, database modification, and transport calculations.
- Used **object-oriented** programming principles and detected program bugs through test-driven development (TDD).

Web-Based "Notepad" Text Editor | https://github.com/bburton0334/asp.net_text_editor

- Designed a text editor in ASP.NET with jQuery, **AJAX** to communicate to the C# & JavaScript logic to open, edit, save files.
- Developed **real-time** updates allowing user files to be seen visually in a drop-down list without needing to refresh the page.
- Used error handling techniques that prompt the user with informative and **immediate** feedback when an error is found.

CERTIFICATES

Nov 2022	**Mastercard,** Cybersecurity Virtual Experience Participant	Cert ID: xft5rLwTFx8XriZHr
Sept 2022	**Goldman Sachs,** FinTech Engineering Virtual Experience Participant	Cert ID: uJ4yTGnQHSgkqPgbY
July 2022	**IBM,** IBM Applied AI Professional Certificate	Cert ID: ZU3FHJZMHFMV

SKILLS

Programming Languages: C#, Python, JavaScript, C, C++, Java, PHP, SQL, T-SQL, HTML/CSS, ARM Assembly, Classic ASP
Tools & Platforms: Azure, AWS, Heroku, Linux, MySQL, SQLite, SQL Server, Android Studio, Git
Frameworks & Libraries: Bootstrap, jQuery, .NET, Android SDK, Ruby on Rails, AngularJS, React