BRIANA BURTON

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EDUCATION

Conestoga College   Waterloo, ON
Advanced Diploma in Software Engineering   *Jan. 2020 – May 2023*
- Member of Google Developer Student Club, Conestoga Entrepreneurship Collective

EXPERIENCE

Software Developer   Jan. 2023 – Present
Enertics Inc.   *Waterloo, ON*
- Developed a web-based application with an Agile team using Express, Node.js and AngularJS to integrate MySQL database info to visualize and analyze motor data from LVMM 100 motor sensors
- Replaced the previous inflexible Chart.JS graphs with interactive embedded Grafana graphs in the front-end of the website, providing real-time visualization of the motor data and enabling quick analysis of trends and patterns
- Implemented Google sign-in using OAuth to provide simple and secure access to the application
- Collaborated with the Enertics team to gather requirements, provide updates, and incorporate feedback, ensuring overall capstone project success

Software Developer   Nov. 2022 – March 2023
GAO Tek Inc.   *Toronto, ON*
- Integrated FoIP (Fax over IP) technology into Linux-based software using advanced C/C++ that allowed for for secure, efficient, and reliable fax transmission over IP networks
- Applied a diverse range of debugging techniques, including error handling and static code analysis, while leveraging industry-standard tools such as Cppcheck, LLDB, and SonarQube, resulting in a *34% decrease* in user complaints
- Participated in SCRUM ceremonies, like daily stand-up meetings and sprint planning, to collaborate with cross-functional teams and deliver high-quality software on time and within budget

Software Developer   June 2022 – Sept. 2022
Freelancer / Self-Employed   *Waterloo, ON*
- Enhanced test coverage for AngularJS and Flask web apps by building comprehensive unit tests and end-to-end test cases using testing tools such as Selenium and Jasmine, resulting in a coverage *increase to 81% and 89%*, respectively
- Collaborated actively with clients to gather requirements and design custom solutions, leading to a *100% success rate* in project delivery and satisfaction
- Ensured the continued success of the software by providing ongoing technical support and maintenance services
- Improved accessibility to 100% by delivering AODA WCAG 2.0 level AA compliant JavaScript and HTML5 code for a client

PROJECTS

Interactive COVID Data Visualizer | github.com/bburton0334/canada_covid_data_visualizer   Nov. 2022 – Dec. 2022
- Developed a dashboard in WinForms using C# that displays Canada's COVID testing and case data
- Designed an interactive GUI that allows users to switch between Canada-wide and province-specific data, as well as select a specific time range for the data being displayed in the pie and line charts
- Utilized SQL Server database data from CSV files provided by the Canadian government as the data source

Web-Based Text Editor | github.com/bburton0334/asp.net_text_editor   Aug. 2022
- Developed an interactive text editor in ASP.NET with jQuery, AJAX, C# and JavaScript to open, edit, and save files
- Used error handling techniques that prompt the user with informative and immediate feedback when an error is found

TECHNICAL SKILLS

Languages: C#, Java, Python, ANSI C, C++, T-SQL, SQL, JavaScript, HTML/CSS, ARM Assembly, PHP, ASP, XML
Developer Tools: Git, Docker, AWS, Azure, Android Studio, Heroku, SQL Server, MySQL
Frameworks & Libraries: .NET, React, Node.js, Flask, AngularJS, .NET MAUI, jQuery, Bootstrap, NumPy, Leaflet
Other Skills: Agile methodology, OAuth, AJAX, UI/UX, Figma, Adobe XD, Adobe Photoshop

CERTIFICATES

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