BRIANA BURTON

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EDUCATION

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

EXPERIENCE

Software Developer   Jan. 2023 – Present
Enertics Inc.   *Milton, 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
- Collaborated with Enertics to gather requirements, provide updates, and incorporate feedback, ensuring project success
- Reduced Grafana query time by **900%** *from 9 seconds to 1 second* by implementing database table indexes, resulting in almost *instant* graph loading time
- Implemented Google sign-in using OAuth to provide simple and secure access to the application

Software QA Tester   July 2022 – Present
Tester Work   *Waterloo, ON*
- Used Requirements Traceability Matrixes (RTM) to map test cases with requirements, ensuring traceability of bug sources
- Conducted over **300** comprehensive tests across desktop and mobile applications, including for **Meta/Facebook** and **YouTube**, to ensure their applications met software requirements and delivered a quality user experience
- Validated software from an end-user's perspective through user acceptance testing (UAT), resulting in *30+ bugs discovered*
- Identified over *50 critical bugs* not previously covered in test cases or requirements using exploratory testing, resulting in improved software quality and a more stable product

Software Developer Intern   Nov. 2022 – April 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, such as daily stand-up meetings and sprint planning, to collaborate with cross-functional teams and deliver high-quality software on time and within budget

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

CERTIFICATES

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