

Mark Branton

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EDUCATION

- **University of Waterloo** Waterloo, ON
Bachelor of Applied Science in Computer Engineering Sept. 2017 – Apr. 2022

EXPERIENCE

- **University of Waterloo** Waterloo, ON
Full Stack Software Developer Sept 2021 - Dec 2021
 - Built the front end for an internal TA application platform in AngularJS. (**AngularJS**)
 - Built the back end for an internal TA application platform in C# and created stored procedures for a SQL database. (**C#, SQL**)
- **PepperData** Toronto, ON
Backend Developer Sept 2020 - Dec 2020
 - Added extensive machine learning and GPU metrics gathering capabilities to a Kubernetes system. (**Kubernetes, Docker, PyTorch, TensorFlow, Bash, YAML**)
 - Lead a research project involving machine learning and hardware monitoring in Kubernetes from start to finish. Took initiative regarding research priorities.
 - Wrote extensive documentation (over 50 pages) and gave several design presentations.
- **Intrigue Media** Guelph, ON
Full Stack JavaScript Developer Jan 2020 - Apr 2020
 - Developed many new features and fixed bugs in proprietary software. Worked extensively with form fields, back end schema, save and update hooks, and developed APIs. (**JavaScript, JQuery, PHP, React, nodeJS, ExpressJS, MongoDB**)
 - Utilized Scrum Agile Methodologies such as Daily Scrum, Sprint Planning, Sprint Retrospectives, etc. (**Scrum Agile**)
 - Held a de-facto IT/Software support role with respect to the company's non-technical teams. Worked extensively with users to identify issues and come up with new features to improve the software.
- **Validus Re.** Waterloo, ON
QA Analyst May 2019 - Aug 2019
 - Fully automated front end testing of a large application using Python and Selenium. (**Python, Selenium**)
 - Automated testing for over 300 REST APIs using TypeScript with Mocha and Chai frameworks. (**TypeScript, Mocha, Chai**)
 - Regularly performed extensive regression testing involving several hundred tests and helped manage the release of new software updates.

PROJECTS

- **SimpleShop App:** Simple shop application with user login and a shopping cart service. Front end built in React, back end built in ExpressJS, SQL database.
- **Personal Website:** A React front end hosted on Github Pages.

PROGRAMMING SKILLS

- **Languages:** Python, JavaScript, TypeScript, C#, SQL, YAML, Bash, PHP, HTML, CSS
- **Technologies:** nodeJS, React, AngularJS, JQuery, ExpressJS, Selenium, Mocha, Chai, Kubernetes, Docker, PyTorch, TensorFlow, MongoDB, Git