

# Mark Branton

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## EDUCATION

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

## EXPERIENCE

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- **Brock Solutions** Kitchener, ON  
*Software Developer* May 2022 - Present
  - Updated the UI for various airline kiosks using Java Swing framework. (**Java, Swing**)
  - Migrated various airline services to an azure cloud environment. (**PowerShell, Azure**)
  - Extensively documented a cloud migration plan.
- **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

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- **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.
- **OpenCal:** A calendar application with a meeting scheduling assistant. Built with NextJS, Golang, DynamoDB and hosted in AWS.

## PROGRAMMING SKILLS

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