

# Ben Rombaut

SOFTWARE DEVELOPER · SOFTWARE ENGINEERING RESEARCHER

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## Education

### Master of Science, Computing

QUEEN'S UNIVERSITY

Kingston, ON

Sept. 2020 - May. 2022

- *Thesis* — Studying the overhead and crowd-sourced risk assessment strategy of Dependency Management Bots
- *Supervisor* — Dr. Ahmed E. Hassan, Software Analysis and Intelligence Lab (SAIL)

### Bachelor of Science, Software Engineering

UNIVERSITY OF NEW BRUNSWICK

Fredericton, NB

Sept. 2014 - May 2019

- *Faculty of Computer Science* — Co-operative Education Program

## Experience

### Software Engineering Researcher

HUAWEI TECHNOLOGIES CANADA CO., LTD.

Kingston, ON

Dec 2021 - Present

- Member of the Centre for Software Excellence.
- Conduct research related to software engineering for high-performance and heterogenous computing systems.

### Head Teaching Assistant

CISC221 - COMPUTER ARCHITECTURE, QUEEN'S UNIVERSITY

Kingston, ON

Sept. - Dec. 2020, Jan. - Apr. 2021 and

Sept. - Dec. 2021

- Main point-of-contact with the students and course instructor. Handled all inquiries from students in a timely manner.
- Responsible for coordinate all teaching assistant duties including allocating work to the rest of the teaching team, monitoring class channels, answering student questions, handling re-grading requests, and ensuring marking deadlines are met.
- Held office hours, ran tutorials, and graded assignments and exams.

### Software Developer

EIGEN INNOVATIONS INC.

Fredericton, NB

May 2019 - Apr. 2020

- Full stack development of client-specific AI-enabled quality inspection and data connectivity software solutions deployed in manufacturing facilities on multiple continents.
- Spearheaded processes for capturing best development practices in a way of coding standards and feedback from other developers and created the team's code style guide.
- Reviewed the quality of other developer's and engineer's code to ensure the readability, maintainability and effectiveness of the code base.

### Front-End Developer (Co-op)

EIGEN INNOVATIONS INC.

Fredericton, NB

May 2018 - Aug. 2018

- Actively contributed to the development and design of the Eigen's primary data visualization desktop and mobile web application using the Vue.js framework.
- Responsible for ensuring new client-side features adhered to customer requirements and improving product aesthetic and UX of new and existing features.
- Worked closely with the back-end team to develop reliable and scalable RESTful APIs, as well as ensure all API documentation was up to date.

### Undergraduate Research Assistant

HUMAN-COMPUTER INTERACTION LAB, UNIVERSITY OF NEW BRUNSWICK

Fredericton, NB

May 2017 - Aug. 2017

- Research assistant to both Assistant Professor Dr. Scott Bateman of the Human- Computer Interaction (HCI) lab and Assistant Professor Dr. Erik Scheme of the Institute of Biomedical Engineering (IBME).
- Aided MCS, MEng and PhD students conduct research and participated in multiple research experiments at both the HCI lab and the IBME.
- Primary developer responsible for design and development of the tablet application used to effectively display data generated from a 'Smart Cane'. Primary technologies used include Java, SQLite and Bluetooth Low Energy.

## Quality Assurance Analyst (Co-op)

Fredericton, NB

SIEMENS CANADA

Sept. 2016 - Dec. 2016

- Responsible for design and execution of well-defined test cases to ensure new product features contained the required functionality.
- Logged defects with clear, concise detail and verified resolved defects in a timely fashion.
- Aided with regression testing prior to major product releases.

## Software Developer & IT Support (Co-op)

Fredericton, NB

BRUNSWICK NEWS

Jan. 2016 - Apr. 2016 and

May 2015 - Aug. 2015

- Independently developed reliable internal business web applications used heavily by the company.
- Maintained legacy FoxPro business applications and ported deprecated applications to C#.
- Provided constant technical support for multiple in-house developed web applications and software related issues, as well as time-sensitive on-site technical support to employees.

## Projects

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### Ben Rombaut - Personal Website

- My personal website I built using **Vue**, available at <http://benrombaut.ca>.
- Includes content about me, my bookshelf showcasing books I've read and am currently reading, blog posts, how-to guides and articles I've written, and links to other software packages I've created.
- Full CI/CD integration to make adding new content a seamless process.

### F3 - Firebase Firestore Facade

- A project I built that serves as a facade between the official Firebase **npm** package and the client project.
- Provides a simplified CRUD interface for the Firestore submodule that requires minimal setup for clients to start using.
- Built using **TypeScript** and available on **npm** at <http://npmjs.com/package/firebase-firestore-facade>.

### Article Scraper

- A project I built that scrapes articles on popular blogging sites for their meta-data (e.g., title, time-to-read, tags).
- Currently supports scraping article data from <http://dev.to>, with plans to extend the package to support additional blogging sites.
- Built using **TypeScript** and available on **npm** at [http://npmjs.com/package/article\\_scraper](http://npmjs.com/package/article_scraper), with a demo site at <http://brombaut.github.io/article-tracker>.