

# Ben Rombaut

RECENT MSC GRADUATE · SOFTWARE DEVELOPER · SOFTWARE ENGINEERING RESEARCHER

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## Education

### M.SC. IN COMPUTING

QUEEN'S UNIVERSITY

📅 May 2022 📍 Kingston, ON

- Thesis on studying the overhead and crowd-sourced risk assessment strategy of dependency management bots
- Member of the Software Analysis & Intelligence Lab
- GPA — 4.3/4.3

### B.SC. IN SOFTWARE ENGINEERING

UNIVERSITY OF NEW BRUNSWICK

📅 May 2019 📍 Fredericton, NB

- Graduated First Distinction and completed the Co-operative Education Program
- GPA — 4.0/4.3

## Skills

### PROGRAMMING

**Advanced:** TypeScript • JavaScript • Python • C/C++ • HTML/CSS

**Familiar:** R • Go • Java • SQL • Bash

### LIBRARIES & FRAMEWORKS

Vue • Pandas • NumPy • Matplotlib • Seaborn • Django • Bootstrap • jQuery • Jest

### MISCELLANEOUS

GitHub Actions • REST APIs • Unix • Git

## Relevant Experience

### SOFTWARE ENGINEERING RESEARCHER

HUAWEI TECHNOLOGIES CANADA CO., LTD.

📅 Dec 2021 - Present 📍 Kingston, ON

- Member of the Centre for Software Excellence, where I perform research involving bleeding edge topics and tools related to software engineering for high-performance and heterogeneous computing systems.
- Survey literature in relevant areas, perform empirical studies, perform rapid experiments with existing tools and prototypes, and prepare and present demos to multiple product teams and domain experts.

### SOFTWARE DEVELOPER

EIGEN INNOVATIONS INC.

📅 May 2019 - Apr 2020 📍 Fredericton, NB

- Systems-level development and 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.

📅 May 2018 - Aug 2018 📍 Fredericton, NB

- Actively contributed to the development and design of the company'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.

## Recent Projects

### MY PERSONAL WEBSITE

PRIMARY TECH USED: VUE, TYPESCRIPT, HTML, CSS, PYTHON, GITHUB ACTIONS

- My personal website I built that includes content about me, my personal bookshelf showcasing books I've read and am currently reading, blog posts, how-to guides and articles I've written, and other topics that showcase my achievements. Full CI/CD integration to make adding new content a seamless process, which is necessary as I'm constantly updating and improving the site. Available at <https://www.benrombaut.ca>.

### F3 - FIREBASE FIRESTORE FACADE

PRIMARY TECH USED: TYPESCRIPT, JEST, NODEJS

- A project I built that serves as a facade between the official Firebase npm package and a client's project. The package provides a simplified CRUD interface for the Firestore submodule that requires minimal setup for clients to start using. Available to download from npm at <http://npmjs.com/package/firebase-firestore-facade>.