

Ben Rombaut

RECENT MSC GRADUATE · SOFTWARE DEVELOPER · SOFTWARE ENGINEERING RESEARCHER

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Education

MASTER OF SCIENCE, COMPUTING

QUEEN'S UNIVERSITY

📅 Oct 2022 📍 Kingston, ON

- Member of the Software Analysis & Intelligence Lab researching the efficacy of dependency management bots in software ecosystems.
- GPA — 4.3/4.3

BACHELOR OF SCIENCE, SOFTWARE ENGINEERING

UNIVERSITY OF NEW BRUNSWICK

📅 May 2019 📍 Fredericton, NB

- Graduated First Distinction and completed the Co-op Education program.
- GPA — 4.0/4.3

Technical Skills

PROGRAMMING

Experienced: Python • TypeScript • JavaScript • HTML • CSS

Familiar: C/C++ • Go • Java • R • SQL • Bash

LIBRARIES & FRAMEWORKS

Frontend: Vue • Vuex • SCSS • Bootstrap • jQuery

Backend: Node • Express • Django

Data Analysis: Pandas • NumPy • Matplotlib

HPC: MPI • Ray • Legion • DaCe

Recent Work History

SOFTWARE ENGINEERING RESEARCHER

CENTRE FOR SOFTWARE EXCELLENCE, HUAWEI TECHNOLOGIES CANADA CO., LTD.

📅 Dec 2021 - Present 📍 Kingston, ON

- Researched and performed rapid proof-of-concept prototyping with bleeding edge topics and technologies related to software engineering for high-performance and heterogeneous computing systems.
- Provided consulting services for multiple in-house product groups across diverse domains concerning issues related to software engineering and heterogeneous computing systems.
- Some tools and technologies primarily used include C/C++, Python, MPI, OpenMP, Legion, DaCe, and Ray.

SOFTWARE DEVELOPER

EIGEN INNOVATIONS INC.

📅 May 2019 - Apr 2020 📍 Fredericton, NB

- Responsible for systems-level development of client-specific AI-enabled quality inspection and data connectivity software solutions deployed in manufacturing facilities on multiple continents, as well as full-stack development of human-machine interfaces for manufacturing plant operators.
- Primary technologies used include C/C++, OpenCV, Python (Django), JavaScript, TypeScript, Vue.js, the Vuex state management library, and CSS (Bootstrap and SCSS).

FRONT-END DEVELOPER (CO-OP)

EIGEN INNOVATIONS INC.

📅 May 2018 - Aug 2018 📍 Fredericton, NB

- Actively contributed to the design and development of the company's principle real-time data visualization desktop and mobile web application by ensuring new client-side features adhered to customer requirements, as well as improving product aesthetic and UX of new and existing features.
- Primary technologies used include JavaScript, TypeScript, Vue.js, the Vuex state management library, SCSS, and Python (Django).

Recent Projects

BEN ROMBAUT - PERSONAL WEBSITE

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

- Personal website that includes content about me, my personal live bookshelf showcasing books I've read and am currently reading, blog posts, how-to guides and articles, and other topics that showcase my achievements.
- Full system includes responsive desktop/mobile SPA frontend, CI/CD pipelines, 3rd-party API consumers, document conversions, and database interfacing.
- Available at <https://www.benrombaut.ca>.

F3 - FIREBASE FIRESTORE FACADE

TECH USED: TYPESCRIPT, JEST, NODEJS, FIREBASE

- Package serving as a facade layer between the official Firebase npm package and a client's package.
- The package provides a simplified CRUD interface for the Firestore submodule that allows clients to quickly connect and interface with their Firestore databases.
- Available on npm at <http://npmjs.com/package/firebase-firestore-facade>.