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

LIBRARIES & FRAMEWORKS

Vue • Pandas • NumPy • Matplotlib • Seaborn • Django • Bootstrap • jQuery • GitHub Actions • 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`.