

# Amir Yasaei

mhyasaei@uwaterloo.ca • (416)820-0867 • LinkedIn: [amiryasaei](#) (link) • GitHub: [amiryasaei](#) (link)

Languages: JavaScript, TypeScript, Python, C, C++, MongoDB, HTML, CSS, VBA

Frameworks and Tools: ReactJS, React Native, Express, Playwright, REST API, GitHub/ GitLab, datoCMS, Vitest, Postman, SonarQube

## Work Experience

### Software Engineer, Tali AI - Toronto, ON

September 2023 – December 2023

- Developed new features for various parts of the Tali website using **React** components written in **Typescript** such as **table of contents**, **carousel**, **pillar post**, **reCAPTCHA** and more. These changes not only made the website more user-friendly and more visually appealing on the client side but also increased the **SEO** rating of the website by 20%.
- Fixed broken **sitemaps** in the resource pages of the Tali website by updating **NextJS** configurations. This correction allowed over 100 medical blog posts on the resource page to be properly indexed, resulting in a 15% rise in the website's **SEO** rating.
- Contributed to implementing Tali's main features on the extension tool and desktop app into the mobile app using **React Native** in **Typescript**. This involved refactoring and, in some cases, redesigning certain features to fit the scope of mobile app project.
- Set up automated end-to-end tests for Tali's extension tool using **Playwright** and **Typescript**. These tests covered various aspects, including user interactions, voice recognition, handling false data, and different product behaviors under various conditions by leveraging **Mock APIs**. This approach significantly improved the quality assurance process for the extension tool.

### Software Developer, Canada Life - Toronto, ON

January 2023 – April 2023

- Designed and developed an innovative **React**-based dashboard in **JavaScript** for business clients. The cutting-edge solution significantly streamlined and optimized the backend process of updating billing information for over 30 businesses.
- Implemented backend APIs using Express to facilitate data retrieval from the client side on the React-based dashboard. Managed the update of the database seamlessly by processing user responses through the developed **React** components.
- Conducted comprehensive unit testing for developed functionalities, creating a suite of tests to ensure robust performance. Additionally, developed and utilized **Mock API** to rigorously test the implemented APIs within the **Vitest** framework on the dashboard.

### Software Developer, Innovapost Inc. - Ottawa, ON (Remote)

May 2022 - August 2022

- Developed and implemented different front-end components using **JavaScript** in **React** to enhance the functionality and user experience of Canada Post's Tracking page. Also, used **React** internationalization (**i18n**) to develop both English and French version of the developed elements. These additions improved the overall user experience of the Tracking process by 30%.
- Increased the unit test coverage of more than 12 projects by writing **Python** unit tests and integration tests for backend functionalities using **PyTest**. The added unit tests improved code quality and reliability by 32% based on the analysis from **SonarQube**.

### RPA Developer, Innovapost Inc. - Ottawa, ON (Remote)

September 2021 – December 2021

- Designed and implemented the flow of **RPA** bots utilizing **UiPath** and **Microsoft Power Automate**. These automation solutions emitted repetitive tasks in preparing monthly defect reports, resulting in increased efficiency and productivity within the organization by 20%.
- Efficiently retrieved data from **JIRA** stories by leveraging provided **APIs** and receiving **JSON** files containing the desired information. Subsequently, **JavaScript** functions were written to extract and manipulate the data, enabling comprehensive analysis and utilization for informed decision-making.

## Projects

### Portfolio Website

Designed and developed a personal portfolio website using **JavaScript** in **ReactJS** in order to share my personal projects through it. Leveraged external services such as **emailJS** and **leaflet** for different components developed for the website. Hosted the website on **AWS** through **CloudFront**. Please visit the portfolio website via [amiryasaei](#).

### Real Time Operating System

September 2022 - December 2022

Designed and implemented a real-time operating system in **C**, specifically designed for the **ARM Cortex-M3** microcontroller. Effectively, utilized the **RTX** library to streamline and simplify the complex process of defining and managing system tasks and resources such as multi-threading and scheduling tasks using interrupts.

## Publication

"Multiple Linear Regression Analysis of Canada's Freight Transportation Framework", J Yousefi, MDPI, 15 May 2023

## Education

**BASC. Mechatronics Engineering (Co-op Program) – University of Waterloo, Canada**

September 2020 – June 2025