Amir Yasaei

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

Frameworks and Tools: React, NestJS, NextJS, MySQL, PostgreSQL, Docker, Playwright, GitHub, Vitest, Postman, Wordpress

Work Experience

Full-Stack Developer, Northern Labs Inc. - *Toronto, ON*   *April 2024 – August 2024*

- Developed over 15 **API** endpoints in **NestJS**, integrating **SQL** queries to enable complete **CRUD** operations on a **Prisma** database. Ensured robust input validation using validation pipes to verify client and merchant data integrity.
- Authored comprehensive **API** documentation using **Swagger**, providing detailed specifications for front-end developers, including endpoint paths, request parameters, and response structures.
- Set up a **Dockerized** test environment with a **Prisma** test database to store mock data for server-side testing. Wrote end-to-end tests to validate **NestJS API** functionalities and ensure reliable data retrieval.
- Designed and implemented two user-friendly dashboards for customers and merchants using **React**, leveraging libraries like **TanStack Router**, **Chakra UI**, and **i18n** to display essential data, including order history, transaction records, etc.

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**.

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**, **reCAPTCHA**, and more developed for the website. Hosted the website on **AWS** through **AWS Amplify**. Please visit the portfolio website via amiryasaei.

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*