

## Ryan Shortt

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### EXPERIENCE

#### Full Stack Software Engineer, Wish — (July 2022 - August 2023)

- Designed and implemented unified backend systems ([Python](#) / [MongoDB](#)) accessible to web, iOS, and Android clients. I authored comprehensive design documentation, and took a lead role in managing task breakdown and estimation for team projects.
- Led the software architecture and implementation of Wish's influencer program, successfully scaling it to over 1000 influencers. This involved designing a complex network of asynchronous jobs, creating administrative panels for efficient management, and introducing a range of novel in-app features.
- Led the software architecture and implementation of Wish's user-to-user referral program, a project that required close collaboration with numerous cross-functional teams across the company. My meticulous software design, combined with robust implementation and real-time monitoring systems, played a pivotal role in ensuring the program's success while minimizing fraud exposure.
- As a dedicated member of the web client ([Typescript](#) / [React](#) / [Redux](#) / [styled-components](#)) team, I volunteered for the web on-call and Git reviewer teams, taking charge of both new web client code deployments and investigation of backend issues.
- Acted as the primary point of contact for our team's data scientist, providing project stakeholders with the necessary insights to make informed, data-driven decisions. Additionally, I functioned as a dedicated backend liaison for my team's iOS and Android contractors.
- Utilized [SQL](#) and [Grafana](#) + [Prometheus](#) to create informative dashboards to diligently monitor system health. I maintained a focus on robust logging, ensuring that key project events were consistently tracked and easily interpretable by project stakeholders.

#### Software Developer, Myplanet — (May 2021 - July 2022)

- Specialized in the development and delivery of multiple headless E-Commerce applications developed using [Typescript](#), [NextJS](#), and [React](#). Sites were designed to be as configurable as possible by integrating cloud commerce tools such as [Contentful](#), [ElasticPath](#), [Stripe](#), and [Algolia](#).
- Contributed various key React components and context providers to the company's shared component library.

#### Automation Tools Developer, Co-Op Student, Ciena — (May 2019 - May 2020)

- Developed automation tools including a system sanity tool allowing users to target test labs to obtain detailed reports on system health. These tools significantly streamlined the automation group's daily operational workflow and showcasing extensive knowledge of [Tcl](#) and [Unix](#) shell programming.

### PROJECTS

#### Receta: [receta.vercel.app](#) – [git repo](#)

- Receta is a recipe sharing app deployed on [Vercel](#), utilizing [NextJS](#) and a [Prisma/Postgres](#) backend. The front-end was implemented with [Typescript](#), [React](#), and custom [SCSS](#) components.
- Integrated Google Lighthouse reports into the CI/CD pipeline, resulting in exceptional web vitals scores for performance, accessibility, best practices, SEO, and PWA.

#### Personal Website: [www.ryanshortt.ca](#) – [git repo](#)

- Developed a website showcasing my previous projects and experience. The website was developed using [React](#), [NodeJS](#), and [UIKit](#), and deployed using [AWS](#).

#### Senior Year Capstone Project — (2020 - 2021)

- Designed and implemented a smart home microsite for a McMaster-sponsored company. The application administers distributed control over hardware nodes using [NodeJS](#), [React](#), [Redux](#), [D3](#), and [Formik](#). Additionally, contributed to the REST API layer development with [Express](#) and [Postgres](#).

### SKILLS

Typescript, Python, Javascript, React, MongoDB, PostgreSQL, NodeJS, AWS, NextJS, CSS, HTML, Redux, SQL, Jest, Prisma.

### EDUCATION

McMaster University, Hamilton, Ontario – [Computer Engineering](#) (Year 3/4 [Dean's List Award](#), 2016-2021)