

## Summary

I'm an engineer who is passionate about writing modular code on the foundations of solid software architecture. My specialty is the front end, but I have worked all across the stack and enjoy the challenge of learning new technologies and patterns. I'm looking for an opportunity to work with other people who are passionate about software development, technology and business.

## Work Experience

### Software Engineer II, Wealthsimple Technologies Inc.

Toronto, Ontario – October 2021 - Present

- Served as the Directly Responsible Individual for the "Option Auto Sell" feature, expertly navigating system architecture to scope both front-end and back-end services. Managed a phased launch from internal testing to full client deployment. From May to September 2023, the feature enabled the automated sale of 175 option contracts, preventing potential losses of \$50K for the approximately 2,000 clients who have opted in to date.
- Within a challenging 60-day timeframe, collaborated on the launch of Wealthsimple's inaugural private credit offering via the mobile app. Pioneered back-office tools for Registered Investment Agents to streamline assessment and decision-making for applicant approvals. Successfully achieved \$10m in net client deposits before the end of the 60-day period.
- Revamped the application's equity, option, and crypto order flow with an emphasis on efficiency and user experience. Successfully streamlined the process from a 5-page to a 2-page flow, slashing time-to-completion by 50%. Adopted a strategic approach in building reusable React components and logic, ensuring consistency and modularity across diverse security classes.
- Championed testing throughout our application by hosting code-alongs on E2E testing and unit testing. Established team standards on testing and implementation by creating and sharing documentation with the team knowledgebase. Automated weekly manual build tests of critical flows by replacing them with E2E tests. Built reusable abstractions atop React Testing Library, Redux, Apollo, and Mock Service Worker to reduce test boilerplate, optimized mock data handling, and elevate the overall development experience.
- Empowered our registered traders by automating manual and tedious database tasks through new user interfaces. Automating processes like single equity order posting, bulk equity order posting, and order auditing led to up to an 80% reduction in time-to-completion. This required consistent collaboration between the Engineering team, who implemented these new features, and the Trade Desk team, who provided feedback after testing against real-world use-cases.
- Implemented full-stack features with React, React Native, Node, and Ruby on Rails in a distributed service architecture. Collaborated closely with backend teams to ensure alignment and maintain data integrity across services.
- Designed and integrated GraphQL endpoints to optimize data retrieval and mutation processes, resulting in faster and more intuitive client-side interactions.
- Leveraged Apollo Client on the front-end to efficiently consume and manage state for GraphQL data. Enhanced user experience and application performance by implementing intelligent caching, batched requests, and real-time data with subscriptions.

### Senior Developer, Royal Bank of Canada

Toronto, Ontario – November 2020 - October 2021

- Led peers in researching and evaluating new technologies, meticulously documenting both their advantages and drawbacks. The insights gained directly influenced the integration of innovative features, bolstered the resilience of our organization's applications and libraries, enhanced development workflow efficiency, modernized our tech stack, and equipped management teams with critical data for risk vs. reward assessments.
- Initiated and executed a new team process to manage technical debt and non-core tasks, pinpointing existing challenges within our codebase and Jira backlog. Advocated for and tried a balanced methodology that prioritizes tasks driving both direct and indirect business value. The

outcome was a remarkable reduction of over 2,000 lines of code from the primary codebase within the initial two months, and a 35% YOY surge in the resolution of technical debt Jira tickets.

- Spearheaded the development and launch of several high-quality features across both online banking and mobile app platforms. Maintained a rigorous emphasis on unit testing, integration testing, and refining our CI/CD pipeline, all to ensure the utmost resilience of newly deployed code.
- Onboarded and mentored junior developers and co-op students through pair-programming, code reviews, whiteboarding sessions, and informal coffee chats.

## **Senior Front End Developer, Normative Inc.**

Toronto, Ontario – Sept 2019 - November 2020

- Set guidelines for client projects by planning the path toward the final deliverable. This included sprint planning, as well as macro-level product roadmaps.
- Deliver high-quality work by developing, testing and deploying Angular and React applications and libraries.
- Resolved gaps in knowledge around project context through team collaboration. This involved creative methods of communication such as internal workshops or sketch sessions.
- While working for a major client in the communications industry, I unified three internationally distributed departments and their teams by leading the development of an Angular component library. This resulted in a more consistent user experience across a set of applications.
- Reduced the installation time of the component library by 73% by automating its download and installation process through code generation scripts.

## **Front End Developer, Entertainment One Ltd. (Secret Location) - Contract**

Toronto, Ontario – Dec 2018 - Sept 2019

- Increased the reusability of application code by implementing an Angular component library. This allowed component portability across a set of applications.
- Scaffolded applications rapidly by constructing view configuration files built on top of the application state and components.
- Ensured that deadlines were met and that momentum was consistent by planning sprints, scoping tasks, and sharing success and challenges in retrospectives.
- Advanced through roadblocks with team members through collaboration tools like whiteboarding and pair programming.
- Ensured WCAG 2.0 compliance through accessibility audits.

## **Front End Developer, Benji - Contract**

Toronto, Ontario – Sept 2018 - Dec 2018

- Accomplished real-time interactivity between devices by building an Angular application with the Web Socket API.
- Broke through roadblocks relating to real-time interactivity such as keeping the connected devices in sync.
- Reduced the initial application load time by splitting the code into modules and lazy-loading them only when necessary through the Angular router.

## **Consultant/Front End Developer, NewAge Products Inc - Contract**

Mississauga, Ontario – Apr 2018 - Apr 2019

- Offloaded content input related tasks from the development team and increased code reusability by implementing new content management strategies such as the development of dynamic, drag and drop layout blocks.
- Enlightened design and development teams on the latest user interface trends through presentations and documentation.
- Ensured high-quality work through a methodical approach of development, staging and qa, and deployment.
- Maintained a high level of design integrity by inspecting designs in Adobe Photoshop and translating them into code.
- Met semi-monthly home page refresh deadlines by destructuring them into phases and maintaining a strong focus on time management.

- Ensured that product page launches remained in sync with the overall marketing strategy.

## Front End Developer, RB Audiobooks.com

Mississauga, Ontario – Sept 2017 - Sept 2018

- Implemented several user interfaces into the Audiobooks.com web application by translating PSDs into functional web pages while adhering to WCAG and web performance standards.
- Architected a new microsite built with Angular. Took a test-driven approach to development by conducting both unit, and end-to-end testing.
- Actively participated in an Agile Kanban methodology.

## UI/UX Developer, Ur-Channel Broadcasting

Mississauga, Ontario – Sept 2016 - Sept 2017

- Delivered high-fidelity prototypes of application components built with Angular, then made them dynamic with data retrieved from API endpoints on the server.
- Constructed annotated wireframes to deliver visual representations of user interfaces to all stakeholders of the product team.
- Actively participated in a Scrum Agile methodology. Became a consistent contributor in sprint planning sessions.

## Technical Skills & Tools

JavaScript	Sass	HTML5
TypeScript	Angular	CSS3
React	Express	GraphQL
Ruby	Nest.js	WebDriverIO
Rails	MongoDB	Appium
Jest	PostgresQL	MSW
Node.js	Git/Github	

## Education

### Juno College of Technology

Toronto, Ontario – 2016

Front End Development Bootcamp