

ADITYA THAKRAL

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SKILLS

Languages TypeScript, JavaScript, Scheme, Ruby, Python, SQL, C++, Bash, SML, Haskell, Rust, C, HTML/CSS
Tools Git, Docker, GraphQL, Node.js, React.js, Babel, Webpack, Ruby on Rails

EXPERIENCE

Shopify, Web Foundations, Web Developer Intern, Waterloo, ON (Remote) Sep 2020 – Present

Microsoft, VSCode, Software Engineering Intern, Waterloo, ON (Remote) May – Aug 2020
Improved accessibility in the Settings Editor GUI

data.world, Software Engineering Intern, Austin, TX May – Aug 2019
Optimized, improved, and standardized the front-end infrastructure for better performance

- **Reduced response times by 20-30%** by upgrading all applications to use the latest Node.js runtime
- Led the migration of all JavaScript code from Flow to TypeScript for better developer experience
- Standardized babel and polyfills to make the frontend backward compatible with older browsers

Shopify, Checkouts Core, Back End Developer Intern, Montreal, QC Sep – Dec 2018
Optimized updates to buyer information during checkout, making Web, REST, and GraphQL APIs faster

- **Reduced calls to MySQL by 50%** on each update by batching persisting changes
- Designed and implemented a schema to expose the checkouts object on the GraphQL API
- Allowed consistent user experience across all platforms by exposing fields on the public GraphQL API

Shopify, Web Foundations, Front End Developer Intern, Ottawa, ON Jan – Aug 2018
Re-wrote the Shopify Admin front-end from ERB in Rails to TypeScript, React and GraphQL

- Improved perceived performance by implementing **optimistic updates** using Apollo GraphQL
- Contributed to Polaris, an **open-source design system**, by adding reusable React components
- Re-architected [@shopify/react-shortcuts](https://github.com/Shopify/react-shortcuts) to support all key combinations

PerkinElmer, Full Stack Developer Intern, Kitchener, ON May – Aug 2017
Built a web app and a voice user interface for a PerkinElmer spectrometer using Meteor.js and Api.ai

PROJECTS

apollo-datasource-mongodb: Added type declarations to make the open-source project work with TypeScript

Plots: A flavor of Monopoly Deal as a multiplayer online card game in TypeScript, GraphQL, and React

Fantastic Kit: Open-source command runner written in Ruby to increase developer productivity

EDUCATION

University of Waterloo, Bachelor of Computer Science (4A) Sep 2016 – June 2021 (expected)

- Compilers, Networks, Concurrency, Type Theory, Security, OS, Databases, Algorithms, Data Structures, OOP
- Vice President – CS Club (Fall 2019); led Git workshops; mentored at StarterHacks 2019 and 2020