

ADITYA THAKRAL

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University of Waterloo, Computer Science (3B)

SKILLS

Languages TypeScript, JavaScript, Ruby, Python, Scheme, SML, Haskell, SQL, Rust, C, C++, Bash, HTML/CSS
Tools Git, React.js, Ruby on Rails, GraphQL, Node.js, Babel, Webpack, Docker, Neo4j

EXPERIENCE

data.world, Software Engineer

May 2019 – Present

Improved and optimised the JavaScript stack for better performance and developer experience:

- Upgraded all applications to use the latest stable Nodejs runtime, **reducing response times by 20-30%**
- Used route based code splitting to improve client side caching and reduce JavaScript payloads over time
- Leading the project to migrate our JavaScript code from Flow to TypeScript

Shopify, Checkouts Core, Backend Developer

September 2018 – December 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
- Refactored the checkout pipeline to streamline credit card updates
- Designed and implemented a schema to expose the checkouts object on the GraphQL API
- Exposed landing pages on the Storefront API to allow consistent user experience across all platforms

Shopify, Web Foundations, Front End Developer

January 2018 – August 2018

Re-wrote the Shopify admin front-end from ERB in Rails to **React** and **GraphQL** in TypeScript:

- Improved perceived performance by implementing **optimistic updates** using Apollo GraphQL
- Contributed reusable React components to the open source **design system** used across Shopify
- Extracted existing React components into documented and tested public NPM packages (**Shopify/quilt**)
- Re-architected **@shopify/react-shortcuts** to support all key combinations

PerkinElmer, Full Stack Developer

May 2017 – August 2017

Built a Web App and a **Voice User Interface** for a PerkinElmer spectrometer using Meteor.js and Api.ai:

- Utilized Socket.IO to connect the web app to multiple spectrometers and get **real time data**
- Created middlewares on different SoCs to make the spectrometer cross platform

PROJECTS & ACTIVITIES

Harmful Pacts: A flavor of Monopoly Deal as an online card game in TypeScript (under active development)

Fantastic Kit: Open source toolkit to increase developer productivity (under active development)

Git 101 Workshop: Introduced VCS and git to beginners and talked about feature branch workflow on GitHub

Assistant Vice President, Computer Science Club of the University of Waterloo during Winter 2019

Mentor – StarterHacks 2019, Helped hackers with React.js, Flask, Node.js