

ADITYA THAKRAL

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University of Waterloo, Computer Science (3B, Expected 2021)

SKILLS

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

EXPERIENCE

data.world, Software Engineer

May 2019 – August 2019

Standardized, improved, and optimized the JavaScript stack for better performance:

- **Reduced response times by 20-30%** by upgrading all applications to use the latest Nodejs runtime
- **Increased browser cache hits of JS assets over a week by 27%** by designing route based code splitting
- Led the migration of all JavaScript code from Flow to TypeScript for better developer experience
- Standardized babel and polyfills to make the frontend backwards compatible with older browsers

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
- Designed and implemented a schema to expose the checkouts object on the GraphQL API
- Exposed fields on the Storefront GraphQL 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

Vice President (Fall 2019), **Assistant Vice President** (Winter 2019): CS Club of the University of Waterloo

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

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

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

Chess Clock: Built a simple and accurate chess clock using React.js