

ADITYA THAKRAL

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University of Waterloo, Computer Science (3A)

SKILLS

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

EXPERIENCE

Shopify, Checkouts Core, Backend Developer September 2018 – December 2018

Made checkout updates faster on web, as well as REST and **GraphQL** APIs:

- Reduced calls to MySQL by **50%** on each checkout update by batching persisting changes
- Refactored the checkouts update pipeline to introduce the credit card updater
- Designed and implemented a GraphQL schema to expose checkouts on the Admin API
- Extended the Storefront GraphQL API to expose online store pages

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 and extensible React components to Shopify's open source design system - **Polaris**
- Extracted existing React components into documented and tested public NPM packages (**Shopify/quilt**)
- Re-architected **@shopify/react-shortcuts** to make it compatible with all keyboard shortcuts

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

IPOV December 2018

Implemented a protocol to use internet over voice on mobile devices using **Rust** and **Twilio** at YHack 2018:

- Built an encoder and decoder to convert data to voice and vice-versa

Donopoly Meal September 2018 – Present

Implemented a flavor of Monopoly Deal as a **multiplayer online card game** using TypeScript, React, GraphQL:

- Created an isomorphic react app for SEO and performance benefits
- Designed and created the GraphQL schema for the game to use a declarative API
- Streamlined developer and deployment experience by **dockerizing the app**

ACTIVITIES

Assistant Vice President, CS Club – University of Waterloo January 2019 - Present

Organized events, maintained CSC's website

Mentor – StarterHacks 2019 September 2018 – Present

Devised different ways to solve problems and clarify doubts, educate hackers in React.js, Flask, Node.js

Office Manager, CS Club – University of Waterloo May 2018 – August 2018

Trained club members for being office staff and ensured that CSC is a safe environment for everyone