ADITYA THAKRAL

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University of Waterloo, Computer Science (3A)

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, Webpack, Docker, MongoDB, Neo4j, Kubernetes

EXPERIENCE

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

Fantastic Kit   January 2019 – Present

Open source toolkit to increase developer productivity:
- Added support for using fantastic kit on fish shell
- Allow to easily add custom commands for specific projects

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

Git 101 Workshop: Introduced VCS and git to beginners and talked about feature branch workflow on GitHub
Assistant Vice President, Computer Science Club at University of Waterloo
Mentor – StarterHacks 2019, Helped hackers with React.js, Flask, Node.js