

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

data.world, Software Engineer, 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
- **Increased browser cache hits** of JS assets over a week **by 27%** by designing route based code splitting
- Standardized babel and polyfills to make the frontend backwards compatible with older browsers

Shopify, Checkouts Core, Back End Developer, 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, 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
- 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, Kitchener, ON May – Aug 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

Harmful Pacts: 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

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

EDUCATION

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

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