

ADITYA THAKRAL

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SKILLS

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

EXPERIENCE

data.world, Software Engineer, Austin, TX May – Aug 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 Node.js 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, 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
- Exposed fields on the Storefront GraphQL API to allow consistent user experience across all platforms

Shopify, Web Foundations, Front End Developer, Ottawa, ON Jan – Aug 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, 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 an online card game in TypeScript (under active development)

Fantastic Kit: Open source toolkit to increase developer productivity

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

EDUCATION

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

- Type Theory, Compilers, Concurrency, OOP, Databases, Algorithms, Data Structures, Security, OS
- Vice President – CS Club of UWaterloo; led Git workshops; mentored at StarterHacks 2019