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

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 Engineer, *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 Engineer, *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*   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