

EXPERIENCE

Shopify, Ottawa ON - Production Engineering Intern *May 2019 - Aug 2019*

Golang, Ruby, Lua, Kubernetes, Edge Infrastructure, Networking, CDNs

- Worked with Shopify's core edge network infrastructure and asset delivery
- Individually engineered an elaborate proxy service encapsulating all Shopify assets while handling a throughput of 100,000 requests per second
- Led a project on infrastructure terraforming to provide a universal Infrastructure as Code implementation for the first time within the company
- Implemented various Kubernetes configurations and autoscaling resources
- Maintained and configured CDNs like Cloudflare, Fastly, and Akamai

Shopify, Waterloo ON - Backend Developer Intern *Sept 2018 - Dec 2018*

Ruby on Rails, MySQL, GraphQL, React, TypeScript, ElasticSearch

- Developed core features for a wholesale e-commerce application
- Architected a public GraphQL API schema implementation for Shopify Admin
- Migrated internal GraphQL Clients and efficiently refactored both static and dynamic queries
- Used Ruby Profilers and Flamegraph to track and reduce the number of bottlenecks within the application and improve performance
- Developed a GraphQL Visualizer to easily write queries and view schema definitions that work with custom shops and users
- Monitored performance, logs, and errors with DataDog and Splunk

Big Four, Waterloo ON - Software Consultant *Jan 2018 - Dec 2018*

Ruby on Rails, Postgres, JavaScript, Heroku, DataDog, Splunk

- Architected a subscription tier system with a payment gating system
- Reduced response time by 88% achieving 400ms average response time by eliminating N+1 queries, caching, using workers, and code optimizations
- Engineered a custom wiki system with a data suggestion approval process

Fera AI, Kitchener ON - Software Engineer *Jan 2018 - Apr 2018*

Ruby on Rails, Postgres, JavaScript, Shopify Partners

- Engineered core features for an e-commerce sales optimization AI
- Tracked user activity and created a visual shopper journey tracking massive data sets to analyze shopping trends and behavior
- Developed a dynamic, user discount generator integrating with Shopify API
- Helped grow product revenue by 424%

Innovasium, Markham ON - Full Stack & Mobile Developer *Apr 2017 - Aug 2017*

React, React-Native, Ruby on Rails, AWS, Postgres, Docker, SASS

- Worked one-on-one with a client to develop a React-Native mobile app
- Developed a mobile app around the client's external API endpoints
- Reduced total mobile app response time by 81%
- Worked with MVC architecture to create a verbose web CMS

PFB, Uxbridge ON - Web & Mobile Developer *Aug 2015 - Sept 2016*

Swift, PHP, JavaScript, MySQL, CSS

- Engineered a custom CMS to quickly create pages and products
- Created a fully responsive website using dynamic toolkits like bootstrap
- Developed an iOS app allowing an admin to login and update content easily

PROJECTS

Spiritually, Software as a Service

Ruby on Rails, Postgres, JavaScript

- Engineered a templating language for custom dynamic themes
- Architected an elaborate CMS system with dynamic data integrations

Eve Editor, In-Browser Text Editor

React, Node, PHP, CSS

- Web application to create, edit, and delete files on a site's server
- Automatic language detection and syntax highlighting

RPG, Unity Open World Game

C#, JavaScript, Unity Engine

- Created a complete RPG world with combat, quest, inventory, enemy AI, animal AI, crafting and shop systems
- Fully scalable with endless hours of game content

Hackr, Mobile & Web Application

React-Native, PHP, Laravel

- An application to match startup employees with relative skills
- Engineered a PHP RESTful API to handle data creation and server-side storage
- Utilized a React-Native frontend to build a complete Android and iOS app

SKILLS

Languages

Ruby, Golang, JavaScript, Java, SQL, PHP, HTML, CSS, C++, C#, C, Swift

Technologies

Ruby on Rails, React, React-Native, Node, Docker, AWS, Electron

EDUCATION

University of Waterloo

2016 - Present

Candidate for Bachelor of Computer Science