

ROHAN RAVINDRAN

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EXPERIENCE

Backend Engineer Intern

Shopify (Zero Trust Engineering)

📅 Sep. 2022 - Dec 2022

- Added **end-to-end** tests to **CI** pipeline using **Cypress** and **Typescript** thereby automating the process of smoke testing dependency upgrades saving developer time
- Created a process for automating involuntary employee exits by implementing a **parallelized system** of jobs using **Ruby on Rails** and **Sidekiq** which has helped over **100+ agents**
- Developed a service approval tracker for untrusted internal applications using **React** and **Typescript** increasing visibility into the service approval process for over **20,000 users**

Backend Engineer Intern

Shopify (Zero Trust Engineering)

📅 Jan. 2022 - Apr. 2022

- Developed a dashboard to display service proposal upvotes using **Ruby on Rails**, **GraphQL**, and **React** providing insight into voting metrics for over **3000+ services**
- Created a user access control dashboard using **Ruby**, **GraphQL**, and **React** that greatly **reduces onboarding time** for new agents
- Implemented a **session expiry notification** feature for users submitting internal service proposals using **Ruby on Rails** and **custom React hooks** thereby reducing support time

Software Developer Intern

CIBC (FX Marketplace)

📅 May. 2021 - Aug. 2021

- Completed a project to handle the reporting of all FINTRAC transactions to the Canadian FIU using **TypeScript** and **Mocha**
- Wrote multiple APIs for the Simplii Gift Card (SGC) Microservice using **TypeScript**, **Node**, and **MongoDB** that is projected to service thousands of daily customers
- Performed **unit** and **integration** testing for the Simplii Gift Card Microservice using **Mocha**, **Typemoq**, and **Chai**
- Used **OOP** (Design Patterns), **Agile** development principles, and **Git** in the development of the FINTRAC and SGC Projects

Frontend Developer

Hack the North

📅 March. 2022 - Present

- Developed multiple **web applications** for Hack the North including **hackthenorth.com**, **apply.hackthenorth.com**, and **my.hackthenorth.com** amassing a cumulative **180k visitors**
- Used frameworks such as **React**, **Context**, **Tailwind**, and **Apollo** to create **responsive** and **accessible** web applications
- **Led the development** of the Sponsor Dashboard project which enabled event sponsors to submit critical information and view attendee profiles

EDUCATION

Honours Bachelor of Computer Science (3A)

University of Waterloo

📅 Sep 2020 - Present 📍 Waterloo, ON

- Received the President's Scholarship of Distinction

TECHNICAL SKILLS

Languages

- Typescript, Javascript, Python, Ruby, C, C++, Java

Platforms and Technologies

- Node, Rails, React, SQL, NoSQL (Mongo, Redis), GraphQL, Express, Git, Flask, OOP (Design Patterns)

PROJECTS

Questrade PV (React, Node, Express, MongoDB)

- Developed a full-stack web application using **React**, **Node**, **Express**, and **MongoDB** to enable Questrade clients to easily view and manage their portfolio
- Implemented an **OAuth** login flow using **PassportJS** and **Cookie-Session** with custom Express middleware to preemptively fetch new access tokens
- Used **React**, **Redux**, **Semantic UI**, and **Nivo-Rocks** to build and style the client-side app
- Utilized **Web Sockets** to fetch real-time pricing and orders data from the Questrade API

Straights (C++)

- Developed a C++ implementation of the Straights card game using **Object-Oriented design principles**
- Utilized design patterns such as **Model-View-Controller**, **Observer**, and **Strategy** along with **inheritance** to create an extensible codebase
- Used **smart** and **unique pointers** when storing objects on **heap memory** eliminating the need for explicit memory management

ImageRepo (React, Node, AWS S3, MongoDB)

- Developed a full-stack web application using **React**, **Node**, **Express**, **MongoDB**, and **AWS S3** to enable users to buy and sell images
- Used **Google's Coco SSD ML** model and **Jim's pixel matching algorithm** to build an advanced image search feature
- Implemented a scalable solution for storing and retrieving images using an **S3** bucket

RELEVANT COURSES

- Object-Oriented Software Design, Processor Design
- Data structures, Algorithms & Data Abstraction
- Graph Theory, Probability, Linear Algebra, Calculus