

# ROHAN RAVINDRAN

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## EXPERIENCE

### Software Engineer Intern

#### Empire

May 2023 - Aug 2023

- Created a deployment workflow utilizing **GitHub Actions** and **GCP** to **automate production and feature branch deployments**, achieving a **~40% reduction** in deployment times
- Engineered a voting system for technology proposals using **Python** and **Firebase**, leveraging **hashed IDs** and an optimized database schema with **denormalization** to **minimize database queries**
- Implemented an **authentication** and **RBAC system** using **Auth0** and **React** with **custom post-login actions** to sync user Google group data, thereby enhancing user access control

### Backend Engineer Intern

#### Shopify

Sep 2022 - Dec 2022

- Added **automated end-to-end tests** to **CI pipeline** with **Cypress** and **Typescript**, expediting the process of smoke testing dependency upgrades leading to a **~60% reduction** in testing times
- Engineered a **parallelized system of jobs** using **Ruby on Rails** and **Sidekiq** to automate involuntary employee exits, simplifying workflow and efficiently supporting over **100 agents**
- Built an internal service approval tracker feature for untrusted apps using **React** and **Typescript**, enhancing approval process transparency for over **10,000 employees**

### Backend Engineer Intern

#### Shopify

Jan 2022 - Apr 2022

- Built a **service proposal dashboard** using **Rails**, **GraphQL**, and **React**, offering actionable voting insight across **3000+ services**
- Created a user access control dashboard using **Ruby**, **GraphQL**, and **React** leading to a **~90% reduction** in user registration times

### Frontend Developer

#### Hack the North

Mar 2022 - Mar 2023

- Built multiple **web apps** that attracted over **~250k visitors**
- Used frameworks such as **React**, **Tailwind**, and **Apollo** to craft **responsive, accessible, and performant** web applications

### Software Developer Intern

#### CIBC

May 2021 - Aug 2021

- Engineered a system to handle the reporting of **all FINTRAC** eligible transactions to the Canadian FIU using **TypeScript**
- Developed robust APIs for the Simplii Gift Card Settlement microservice using **TypeScript**, **Node**, and **MongoDB**, servicing **thousands** of customers daily

## EDUCATION

### Honours Bachelor of Computer Science (3B)

#### University of Waterloo

2020 - 2025

- Received the President's Scholarship of Distinction

## TECHNICAL SKILLS

### Languages

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

### Platforms and Technologies

- React, NodeJS, Rails, SQL, NoSQL (Mongo, Redis), GraphQL, Express, Flask, Git, Rest APIs

## PROJECTS

### Open Source Developer

- Modified the React-Bootstrap docs site with updated descriptions and interactive examples that explain the global 'as' prop (**~2M Weekly Downloads**)
- Updated the Semantic UI search component with a text placeholder feature (**~220k Weekly Downloads**)

### SocialText (React, Node, GraphQL, PostgreSQL)

- Engineered a full-stack anonymous content-sharing platform utilizing **Typescript**, **React**, **GraphQL**, **Node**, and **PostgreSQL**
- Improved application performance by implementing **Server Side Rendering** using **NextJS** and **URQL**, and utilizing **Redis** to store user sessions
- Leveraged **Docker** and **Kubernetes** to implement a robust deployment workflow, ensuring the application was scalable and reliable for end-users
- Optimized data fetching by leveraging **DataLoader** for efficient batching and caching of database requests

### Questrade PV (React, Node, Express, MongoDB)

- Built a full-stack portfolio management app for Questrade clients using **React/Redux**, **Node**, **Express**, and **MongoDB**
- Engineered an **OAuth** login flow using **PassportJS**, enhanced with custom middleware to preemptively re-new access tokens
- Integrated **Web Sockets** for real-time pricing and order data retrieval from the Questrade API

### ImageRepo (React, Node, AWS S3, MongoDB)

- Crafted a full-stack marketplace for buying and selling images, utilizing **React**, **Node**, **MongoDB**, and **AWS S3**
- Incorporated **Google's Coco SSD ML** model and a pixel-matching algorithm to enable advanced image search capabilities
- Engineered a **scalable** image storage and retrieval mechanism leveraging **AWS S3** buckets