Rosa Li

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Education

Carleton University - Bachelor of Computer Science Honours — Sept 2021 - May 2025

- **$160,000** scholarship and four internships at Shopify across different teams and disciplines.
- **Courses**: Data Structures and Algorithms, Software Engineering Principles in C++, Web Applications, Operating Systems, Introduction to Machine Learning, Fundamentals of Databases

Work Experience

Shopify

Software Engineer Intern - Frontend — May 2023 - Present

- Introduced **biometric authentication** to Shop Pay sign-in flow, increasing Shop Pay conversion and saving up to **$500,000 per month** as SMS and email sign-in are reduced.
- Refactored Shop Pay's checkout form with **React** and **React Native**, providing customers with a faster checkout experience
- Led **accessibility** efforts for Shop Pay to improve user experience and providing enhancements for voice-over in the Shop Pay sign-in flow, impacting thousands of users.

Software Engineer Intern - Backend — May 2022 - April 2023

- Developed a **GraphQL** mutation facilitating digital and warehouse returns for merchants worldwide
- Designed and developed **webhooks** for third-party apps to facilitate real-time database synchronization, increasing returns made through Shopify third-party conversion
- Collaborated with cross-functional teams to develop a timeline event in the Shopify Admin page, showcasing return item statuses using **Ruby on Rails** and GraphQL, thereby enhancing accessibility and user experience.
- Created the initial version of a Shopify **API** responsible for processing refunds related to returns in the Exchanges feature
- Facilitated strategic **decoupling** of software components to enhance the **modularity** and **scalability** of the codebase, streamlining ongoing development efforts
- Introduced an API tasked with distributing financial transactions for the development of a new component

Projects

Web Crawler and Search Engine - Python

- Programmed a **web scraper** capable of analyzing file content and detecting connected URLs.
- Implemented the **Page-Rank algorithm** to display information from most relevant to least relevant

Agendify

- Build a calendar-based app tracker that helps users time-block and organize their tasks in **React**
- Accepted into Buildspace S4, 6-week builder group backed by **YC**, **a16z**
- Added **Firebase OAuth** and **Firestore** for database usage
- Introduced the **OpenAI API** to generate 'Quote of the day'.
- Developed testing suites utilizing the **Jest** framework to test the application's reliability

Skills

Languages: Ruby, JavaScript/Typescript, Python, Java, C++, C
Frameworks: Ruby on Rails, GraphQL, React
Tools: MongoDB, XCode, Git, VSCode