

Eric Chen

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Education

University of Waterloo & Wilfrid Laurier University

Waterloo, Canada

B.S. IN HONOURS COMPUTER SCIENCE AND BUSINESS ADMINISTRATION DOUBLE DEGREE

Sept. 2019 - Jun. 2024

- **Awards:** President's Scholarship of Distinction, Forester's Financial Scholarship
- **Relevant Coursework:** Data Structure and Algorithms (C++), Compilers (C++), Operating Systems (Linux), Data Management
- **Activities:** Faculty Student Ambassador, Tech+ UW, Hack the 6ix, Laurier Business Case Team, & Exchange Student in France

Work Experience

Carta (formerly eShares Inc.)

San Francisco, CA

BACK-END DEVELOPER

Jan. 2022 - Apr. 2022

- Supported over 10+ different teams' protobuf messages to enforce **event-driven architecture** within the organization to support new development principles for **500+ developers** using **Python**
- Created and produced automated end-to-end scripts to generate JSON files containing event metadata using **Apache Airflow, CircleCI and GitHub API**, and loading with **AWS Redshift data warehousing and S3 buckets** (ETL) using **Postgresql**
- Implemented support for **Kafka message headers** using **Django and Debezium outbox patterns** to publish Kafka messages

Royal Bank of Canada

Toronto, ON

FULL-STACK DEVELOPER

Jan. 2021 - Apr. 2021

- Spearheaded the completion of over **30+ technical requirements** by engaging with cross-functional stakeholders as part of **2 major releases** in the launch of myGPS to **1000+ investment advisors**
- Developed end to end financial projection components using **Angular 7/11, TypeScript, NodeJS, MongoDB, SQL, GraphQL, Jenkins, & Elasticsearch** in a microservices design architecture for the RBC myGPS web application
- Selected as an **RBC Student Partners** to promote engagement and deliver presentations to 300+ RBC students and stakeholders

Ontario Digital Service

Kitchener, ON

WEB ENGINEER

May. 2020 - Aug. 2020

- Engineered a secure portal and web form using **React.js, Node.js and Firebase** to reduce client application time delays by over 90% and increase application visibility through real-time personalized dashboards
- Delivered accessible **data visualizations** using React.js and Node.js in response to the Covid-19 pandemic, generating over **500,000+ unique page views** in one month
- Built a **Gitlab CI/CD pipeline** to automatically deploy to **Firebase to cut deploy times by 95%**
- Implemented **Agile** methodology to rapidly iterate the prototype by conducting **usability tests** with **20+ program stakeholders**

Projects

ShipMates

TOHacks 2021

FULL-STACK MOBILE ENGINEER

- Built a mobile app that allows nearby individuals to group online orders using **Flutter, MaterialUI, Mobx** with dynamic updates connected to an **Express server** written using **NodeJS**
- Connected the frontend using **Axios to interact with REST API** endpoints to perform **CRUD operations on DataStax tables**

Interview Prep App

StarterHacks 2020

FRONT-END MOBILE ENGINEER

- Developed an interview app that predicts resume questions using **Google Cloud Vision and Natural Language Processing APIs**
- Employed the use of **React-Native** to build the front-end infrastructure including **camera integration and resuming parsing**

Skills & Initiatives

Community Leadership

3 years **Co-chair** of Hack the 6ix, Toronto's largest summer hackathon with over 750+ participants

2020-Present

2 years **Logistics Coordinator** of Tech+ UW, a club aimed at fostering a tech community of diversity and inclusion

2021-2022

2 years **Academic Delegate** of Laurier Case Team, competing internationally in business case competitions

2021-2022

Skills and Interests

Languages: Python, C++, JavaScript, C, Java, SQL, TypeScript, Dart, R

Tools: React, React-native, Redux, Express, Angular, MongoDB, Flutter, Git, Firebase, Google Cloud, Linux, Webpack

Interests: reading, tennis, golf, investing, personal health and wellness