

Eric Chen



< Skills />

var software =
Python, C++, JavaScript, C, Java, SQL, TypeScript, Dart, Racket, R, HTML, CSS/SASS, gRPC/Protobuf

var frameworks/libraries =
React, React-native, Redux, Express, Angular, GraphQL, MongoDB, Flutter, Bootstrap, Material-UI

var tools =
Git, Firebase, Google Cloud, GitlabCI, Linux, Figma, JIRA, Webpack, VSCode

< Education />

var university =
"University of Waterloo"
"Sept 2019 - Jun 2024"

var program =
"Computer Science and Business Administration Double Degree"

var relevant_courses =

- Data Structures and Algorithms (C++)
- Data Management & Compilers (C++ and Linux)
- Operating Systems (C++)

< Ask Me About />

Hack the 6ix, Co-chair

Managed 34 organizers across 6 different cross-functional teams to organize an event with over 750+ hackers, mentors, and sponsors from over 40+ countries

Laurier Case Team, Competitor

Competed and won internationally in case competitions including Microsoft AI in Finance, HP Tech Challenge, PepsiCo Pitch, & AshokaU Changemaker Innovation

Tech+ UW, Logistics Coordinator

Coordinated workshops for underrepresented students to inspire and cultivate a diverse, inclusive, and equitable tech community

< Work Experience />

Carta (eShares), Back-end Developer

San Francisco, CA | Jan 2022 - Apr 2022

- Created and produced end-to-end automated event-tracking JSON files with **Apache Airflow**, **CircleCI** and GitHub API, and loading using **AWS Redshift data warehousing** and **S3 buckets** (ETL) using **Postgresql**
- Migrated over 10 **protobuf messages** to enforce event-driven architecture schema guidelines and refactored the organization's creation of **kafka messages** to support this schema for 500+ developers
- Implemented support for **Kafka message headers** using **Django** that employed **Debezium outbox patterns** to publish Kafka messages

Royal Bank of Canada, Full Stack Developer

Toronto, ON | 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 a new myGPS web app to **1000+ investment advisors**
- Developed end to end financial projection components using **Angular 7/11**, **TypeScript**, **NodeJS**, **MongoDB**, **SQL**, **GraphQL**, **Jenkins**, & **ElasticSearch** with a microservices design architecture
- Selected as one of 12 RBC Student Partners to promote engagement for over **300+ RBC students** and deliver presentations RBC stakeholders

Ontario Digital Service, Full Stack Developer

Waterloo, ON | May 2020 - August 2020

- Designed and engineered a secure portal using **React.js**, **Node.js** and **Firebase** to reduce program **client time delays by over 50%**
- Delivered accessible **data visualizations** using **React.js** and **Node.js** generating over **500,000+ unique page views** in less than one month
- Built a **Gitlab CI/CD** pipeline to automatically deploy to **Firebase**
- Implemented **Agile methodology** to rapidly iterate the prototype by conducting usability tests with 20+ program stakeholders and clients

< Tech Projects />

ShipMates, Mobile Developer

Toronto, ON | TOHacks 2021

- 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, Mobile Developer

Waterloo, ON | StarterHacks 2020

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