

# Eric Chen

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## Skills

**Languages:** Python, JavaScript, TypeScript, C/C++, Java, MySQL, SQL, Dart, R, PHP  
**Tools:** React, React-native, Redux, Express, Angular, MongoDB, Flutter, Git, Firebase, Google Cloud, Linux, Docker  
**Interests:** Reading, Tennis, Golf, Investing, Personal Health and Wellness

## Work Experience

**Datadog** New York City, NY  
INCOMING FALL 2023 Sept. 2023 - Dec. 2023

**Wealthsimple** Toronto, ON  
SOFTWARE ENGINEERING INTERN May. 2023 - Aug. 2023

- **Conceptualized, designed, and developed CashFx**, a new currency conversion tool that enables clients to automatically convert foreign expenses to CAD using **Typescript, React-Native hooks, Figma, and Xignite API**
- Delivered Wealthsimple's **first credit card** product by creating an automated end-to-end testing program to conduct credit risk-assessments using **Python, Preset API, & Datadog API**
- Led the refactoring and migration of **15+ database schemas** and spearheaded the backfill of **500,000+ client records using Python & SQL**

**Carta (formerly eShares Inc.)** San Francisco, CA  
SOFTWARE ENGINEERING INTERN Jan. 2022 - Apr. 2022

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

**Royal Bank of Canada** Toronto, ON  
SOFTWARE ENGINEERING INTERN Jan. 2021 - Apr. 2021

- Spearheaded over **30+ technical requirements** by engaging with cross-functional stakeholders as part of **2 major releases** in the launch of the RBC myGPS web application 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
- Selected as an **RBC Student Partner** to promote engagement and deliver presentations to 300+ RBC students and stakeholders

**Ontario Digital Service** Kitchener, ON  
SOFTWARE ENGINEERING INTERN May. 2020 - Aug. 2020

- Engineered a secure portal and web form using **React, Node.js and Firebase** to reduce client application time delays by **over 90%** and increase application visibility through real-time personalized dashboards
- Delivered accessible COVID-19 **data visualizations** using React 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%**

## Projects

**ShipMates** TOHacks 2021  
FULL-STACK MOBILE ENGINEER

- Built a mobile app that allows nearby users 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 resume parsing**

## Education

**University of Waterloo** Waterloo, Canada  
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 (C, Linux), Data Management

### Community Leadership

**Co-chair** of Hack the 6ix, Toronto's largest summer hackathon with over 750+ participants 2020 - Present  
**Logistics Coordinator** of Tech+ UW, a club that fosters diversity and inclusion within the tech community 2021 - 2022  
**Academic Delegate** of Laurier Case Team, competing internationally in business case competitions 2021 - 2022