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, France exchange, 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**, winning **Wealthsimpler's choice for best innovation** among the entire organization
- Implemented the **backend decisioning platform** in the launch of Wealthsimple's **first credit card product** that underpinned the logic behind approving/denying clients for credit cards using **Kotlin, Apache FlinkSQL, & Kafka**
- Led the **refactoring of 15+ database schemas** and spearheaded a crucial time-sensitive backfill of **2 million client records** using **Python, AWS Redshift, S3 buckets, Airflow, & DBT** to ensure company compliance with government regulations

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 - Aug. 2024*

- **Awards:** President's Scholarship of Distinction, Forester's Financial Scholarship, DELF B2 (Français)
- **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*