OZZIE KIRKBY

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EDUCATION

Queen's University *(May 2021)*
Major in Mechanical Engineering

SKILLS

Swift Python mongoDB SQL

Javascript Spark Ruby Go

MATLAB Typescript

UIKit node.js numpy GraphQL

Arduino Ruby on Rails React

ElasticSearch

Data Visualization CAD

AWARDS

Apple WWDC scholarship
(2016, 2017, and 2018)

Scotiabank Best use of AI (QHacks)
(2018)

LANGUAGES

English *(Bilingual proficiency)*

French *(Bilingual proficiency)*

Russian *(Beginner)*

HOBBIES

Long Distance Running Reading

Hockey

EXPERIENCE

Coinbase Software *Engineer Intern*

Summer 2020

- Converted a high-performance HTML canvas implementation to be React based, improving the performance by 20%.
- Integrated Bazel tooling specific to frontend development in a Monorepo setting. Aligned several teams on a single configurations to be shared.
- Implemented chart market visualizations for institutional investors, allowing them to understand the market conditions in real-time.

Technologies: React, Typescript, Bazel, eslint, webpack, JSON patch

Shopify Software *Engineer Intern*

Summer 2019

- Developed dimensional models using PySpark and star modelling techniques to identify potential performance improvements within the Data Infrastructure.
- Designed a failure resilient architecture to manage the complicated state transitions for an internal product.
- Developed the fundamental architecture for a new system to allow for the discovery of data assets produced internally.

Technologies: Python, Ruby on Rails, SQL, React + Typescript, Spark, Elastic Search

Shopify iOS *Engineer Intern*

Summer 2018

- Developed features to make it easier for merchants to gain insights into their business, reaching over 500k active users.
- Designed new components within the Home tab, resulting in a more reliable and engaging mobile experience.
- Integrated a new flow for merchants to identify, address, and monitor revenue opportunities within their business.

Technologies: Swift, UIKit, Xcode, FunctionalTableData, GraphQL

PROJECTS

Zetro *Web app*

January 2020 – Current

- Currently designing and developing a note taking app geared towards STEM students.
- Features include a completely custom note taking editor, allowing students to typeset equations along side their notes with ease. Ability to include code snippets and actually execute them from the note taking interface.
- GraphQL backend with a React Typescript frontend and MongoDB as the data store.

Technologies: Typescript, React, GraphQL, Swift, MongoDB, Google Cloud Functions

Outflow *iOS App*

September 2015 – October 2018

- Designed, developed, and marketed an iOS app to help manage the complexity of recurring subscriptions by making it easy to understand where your money is being spent.
- Created a feature to help users find pre-existing subscriptions by searching the users Gmail account.
- Top 5 products of the week on Product Hunt. Grossed over $10,000 USD in paid app downloads.

Technologies: Swift, Xcode, UICollectionView, Firebase, Python, Node.js, Sketch, HTML/CSS