

# John Fernandes

SOFTWARE ENGINEER · FULL STACK DEVELOPER · DATA ENGINEER

Mississauga, Ontario, Canada

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*"You say cache, I say cash-ay"*

## Employment

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### GroupBy Inc.

Toronto

DATA ENGINEER

Jan. 2018 - Apr. 2018

- Constructed an ETL pipeline from scratch with Google Cloud, BigQuery and MySQL to process terabytes of e-commerce data.
- Aggregated data by a factor of 20, reducing query cost from \$5 to 25 cents a terabyte.
- Developed REST endpoints with Node.js for an analytics dashboard to display insights of e-commerce websites data over time.
- Deployed containerized modules to Kubernetes with Docker.

### Ingle International

Toronto

SOFTWARE ENGINEER

May. 2017 - Aug. 2017

- Developed a enterprise-level, responsive health application with over 600,000 users.
- Used a modern tech stack of React, Redux, Typescript, Sagas, Snapshot Testing and Selenium.

### Tiko 3D

Oshawa

SOFTWARE ENGINEER

May. 2012 - Aug. 2016

- Developed a chatbot with the Wit.ai NLP machine learning API, React and Node.js to automate customer service.
- Developed the Back End with Express.js and Mongo to process and store customer queries.
- Developed a web scraper to scrape data from Kickstarter to train ChatBot. Refined data with grammer libraries.
- Developed a mass uploader to upload common questions to Zendesk.

## Projects

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### Are We There Yet

ANDROID APP

- Native Android app which returns the distance between two locations using the Google Maps API.

### Champer Crawler

OOP C++ VIDEO GAME PROJECT

- Video game built with a team of 3 that uses the core concepts of OOP: inheritance, encapsulation, polymorphism and design patterns.

## Education

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### University Of Waterloo

Waterloo, Canada

B.S. IN COMPUTATIONAL MATH, MINOR COMPUTER SCIENCE, CO-OP

2019

- OOP, Data Structures, Algorithms, Databases, Statistics, Computational Statistics in R