

# Jeffrey Wang

## Systems Design Engineering

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*A lively and passionate engineer always striving for the best solution to a problem*

**JANUARY 2018 to APRIL 2018**

### SOFTWARE ENGINEER | WEALTHSIMPLE, TORONTO, ON

*Ruby on Rails, GraphQL, Python, React, Angular, PostgreSQL*

- Delivered personalized advice to 60,000+ clients by developing an advice page with a backend data parsing and analysis system across multiple microservices
- Saved over 4 hours of daily work for the Ops team by designing and building a file processor to automate CDS trade confirmations and newborn RESP outreach
- Reduced the number of tickets that required Ops intervention by writing bots that fire Sidekiq jobs to reply to the 3 most common types of inquiries
- Increased scalability of the investment research team by refactoring Python codebase used for critical algorithms

**MAY 2017 to AUGUST 2017**

### AGILE SOFTWARE ENGINEER | TRIBALSCALE, TORONTO, ON

*Ruby on Rails, React, Redux, Swift 3, PostgreSQL, Node.js (Alexa)*

- Improved latency of Allocations Rails backend by over 50% by implementing delayed jobs, optimizing ActiveRecord queries and strategically caching
- Enriched official NBA Alexa voice app by developing 6 new commands to tell user information about the Finals
- Built synchronizing flight attendant and passenger iOS apps from scratch for in-flight purchases

**SEPTEMBER 2016 to DECEMBER 2016**

### SOFTWARE ENGINEER | FLIPP, TORONTO, ON

*Ruby on Rails, AWS, PostgreSQL*

- Enhanced and maintained Flyer Admin Ruby on Rails application, used to create over 200,000 digital flyers for 300+ retailers as of 2016
- Integrated over 10 new merchants into the back-end system, adding 80000+ items to all Flipp products like the popular iOS app

**JANUARY 2016 to APRIL 2016**

### TECHNICAL SYSTEMS ANALYST | RBC, TORONTO, ON

*C#, .NET, JavaScript, Powershell, IBM TSO/ISPF, IBM Bluemix*

- Drove innovation by using IBM Bluemix to develop mySomeday, a cloud application that optimizes customers' monthly budgeting
- Improved efficiency for the entire RBC Lifesuite team by developing a script that fully automates deployments

## PROJECTS

### Oinx (Ruby on Rails)

- Helps Generation Z to reach their goals by visualizing and saving for their wish list using the Wealthsimple API

### LyricCat (Node.js, Express.js, Graph API)

- Musical Facebook chatbot that displays the lyrics of a song given its name/artist

See more at: [jeffwang13.github.io/projects](https://jeffwang13.github.io/projects)

## TECHNICAL SKILLS

### Languages

- Ruby
- Java
- Python
- JavaScript ES6

### Frameworks

- Rails
- PostgreSQL
- React/Redux
- Angular

## HACKATHONS AND AWARDS

### WearHacks SickKids Challenge 1<sup>st</sup> Place

- Created TrakRecord, an Android app designed as a companion for walkathons
- Won \$20K in support for further development with prototype

### Accelerator Centre Design Camp 3<sup>rd</sup> Place

- Wrote Plan-It, a Java one-button planet building game designed for a 3-storey tall Christie screen

### Jane Street ETH1 7<sup>th</sup> Place

- Developed a trading bot to trade stocks and bonds against other bots in a simulated marketplace

## EDUCATION

### University of Waterloo 2015-2020

- BSc in Systems Design Engineering
- President's Scholarship

## INTERESTS

- Hockey, basketball, ping pong
- Music (hip-hop, EDM)
- Former Chinese U20 hockey goalie