

# Darren Cao

## CONTACT

Email: [darrencaoyz@gmail.com](mailto:darrencaoyz@gmail.com)

Website: [dcaoyz.github.io](http://dcaoyz.github.io)

Github: [github.com/dcaoyz](https://github.com/dcaoyz)

Phone: (647) 767-2176

## EDUCATION

### UNIVERSITY OF WATERLOO

BS, 4A Software Engineering

Graduation: June 2018

GPA: 3.9/4.0

Top 10 in Class for Fall 2013,

Winter 2014, Fall 2014 terms

## SKILLS

### LANGUAGES

C/C++ • Java • C# • Python • Ruby

JavaScript • HTML • CSS • SQL

### FRAMEWORKS

React • Redux • AngularJS

Ruby on Rails • .NET • Android

### TOOLS

git • bash • vim • IDEs

## EXPERIENCE

### DISTRIBUTED SYSTEMS ENGINEER NVIDIA

Santa Clara, CA

Jan - Apr 2017

- Designed and implemented a **highly distributed, event-driven** queue processor for **cloud provisioning** - validated through metrics to make **less than 1%** of the service calls used in predecessor model
- Optimized resource allocation times by independently identifying and fixing concurrency errors and inefficiencies in barrier design
- Worked on heuristics for predictive resource creation to save costs

### FULL STACK ENGINEER RIVIERA PARTNERS

San Francisco, CA

May - Aug 2016

- Created mail components in React and worked on Rails backend to support **native messaging** with candidates and clients
- Added the employment wins feature used on every profile to drive efficient, data-backed screening based on candidate history
- Improved coding practices by setting up seeded development environments and RSpec unit tests

### FULL STACK ENGINEER DBRS LIMITED

Toronto, ON

Sep - Dec 2015

- Developed the rating checklist workflow using AngularJS to ensure regulation compliance and improve analyst efficiency

### APPLICATIONS DEVELOPER ULTIMATE SOFTWARE

Weston, FL

Jan - Apr 2015

- Built internal tools for automated web application testing

## PROJECTS

[github.com/dcaoyz](https://github.com/dcaoyz)

### Conversation Analyzer

- Generate insights and graphed trends directly from Messenger through statistical methods and machine learning APIs

### Group Decision Maker

- Make plans through realtime voting based on a tournament decision tree; built using WebSockets, React, and Redux

## AWARDS

### Qualified for Google Code Jam

2017

- Advanced to invitational rounds of programming competition

### Top 8 at Jane Street Algorithmic Trading Competition

2016

- Wrote adaptive algorithms targeting arbitrage opportunities

### Finalist at HackPrinceton - Microsoft Prize Winner

2015

- Led team of 5 to build a pathfinding robot that catches intruders