

# Zachary Espiritu

I'm a software engineer.

ZacharyEspiritu 

zacharyespiritu 

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## Experience:

**Software Engineering Intern, Negotiatus** Jun 2017 – Aug 2017

- Co-developed *Leadbase*, an automated sales lead validator; built Github-like search filters and file imports with NLP capabilities
- Streamlined operations team workflows with Slack integrations, automated price analysis and comparison tools, and direct integration with exclusive third-party vendor APIs
- Optimized PostgreSQL queries using materialized views/partial indices; implemented caching system for up to ~500x faster full-text searches

**Software Engineering Intern, Negotiatus** Jun 2016 – Aug 2016

- Developed automated scheduling system where clients can place recurring orders, leading to guaranteed increases in monthly revenue
- Wrote test suite from scratch for several thousand existing lines of code with over 70% coverage; set up Travis CI and RSpec
- Built several web scrapers with NLP capabilities for automation purposes, saving hundreds of hours of human labor

**Teacher, The Coding Space** Mar 2016 – Jun 2016

**Speech & Debate Coach, Holy Family School** Sep 2014 – Apr 2015

## Projects:

**Github Dating Simulator** Sep 2016

Rails web app that analyzes Github profiles and creates best-match hackathon teams by using statistics and the Github API.

**Math Battle!** Oct 2015 – Aug 2016

iOS app where players compete to solve math-based puzzles via real-time, online multiplayer; recognized at 10Under20 @ CEWeek.

**Data Farm** Aug 2015

iOS app tracking cellular data usage in order to motivate people to consider cheaper data plans; 1st Place at hackGCT 2015.

**Tile, Tap, Push!** Jun 2015

Open-source iOS game where two players race to tap a stream of tiles as fast as possible; over 3000 downloads on App Store.

(many more projects, designs, and articles @ zacharyespiritu.com)

## Recognition:

**Louise O'Rorke Award for Dramatics/Lighting Design**, June 2017

**10Under20: Young Innovators to Watch @ CEWeek**, June 2016

**Congressional App Challenge Winner**, February 2016

## Education:

**Brown University**

Sep 2017 – Expected Jun 2021

**Regis High School**

Sep 2013 – Jun 2017, GPA 3.75

**Independent Studies:** Data Structures and Algorithms, AP Computer Science, AP Statistics, AP Economics

**Other Courses:** Calculus AB / BC, Advanced Physics

**Make School Summer Academy**

Jun 2015 – Aug 2015

## Skills:

**Languages:** Swift, Objective-C, Java, HTML / CSS, Ruby, JavaScript, Python, Racket, Pyret

**Technologies:** Rails, Sass, Docker, jQuery, PostgreSQL, Mixpanel, Firebase, Sketch, InDesign, Photoshop, Functional Programming

## Activities:

**The Owl, Layout Editor**

Designed print newspaper with Adobe InDesign; in 2014, deployed new online format using custom WordPress theme.

**Stage Crew, Lighting Designer**

Head lighting designer at high school for 4 years; managed crew of ~20 students.

**Speech & Debate, President**

Nationally-ranked speaker; coached and managed fellow students on ~210 person team.