

# 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

## 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:

**UI/UX Winner @ Brown University Adobe Design Jam**, Sep 2017

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

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

**Congressional App Challenge Winner**, Feb 2016

## Education:

**Brown University, RI**

Sep 2017 – Expected Jun 2021

**Relevant Courses:** Introduction to Computing Systems, User Interfaces and User Experience, Japanese I

**Regis High School, NY**

Sep 2013 – Jun 2017

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

**Make School Summer Academy**

Jun 2015 – Aug 2015

## Skills:

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

**Design:** Figma, Sketch, InDesign, Photoshop, InVision, Adobe XD

**Technologies:** Rails, Sass, Docker, jQuery, PostgreSQL, Mixpanel, Firebase, Heroku

## Activities:

**Newspaper, Layout Editor**

Designs each print issue in Adobe InDesign.

**Theater, Lighting Designer**

Designer at high school for 4 years. Concurrently working on 3 theater productions at Brown.

**Speech & Debate, President**

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