

Zachary Espiritu

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Education

Brown University • May 2021
Sc.B. Computer Science • GPA: 4.0

Regis High School • June 2017

Skills

Languages

Ruby • Python • Swift • Objective-C •
Java • C • Assembly • HTML / CSS •
JavaScript • Racket • Pyret • Matlab

Technologies

Rails • React • Sass • jQuery •
Heroku • Docker • PostgreSQL •
Alloy • Rosette • Spin

Prototyping

Figma • Sketch • InDesign •
Photoshop • Adobe XD

Coursework

Accelerated Intro to Computer Science
(Algorithms, Data Structures,
Functional Programming)

Computer Systems Security*

Discrete Structures and Probability*

Introduction to Computer Systems

Linear Algebra*

Logic for Systems (Formal Methods
and Verification in Programming)*

User Interfaces and User Experience

** in progress*

Activities

Musical Forum • Board Member

Theater group at Brown producing 3–4
shows per semester; five years of
lighting design over 15 productions.

Critical Review • Staff Writer

Experience

Brown Computer Science Department Fall 2017 – Present
Teaching Assistant for CS5 (Fall 2017), CS4 (Spring 2018)

Worked with a team of TAs and course professors for different courses each semester. Answered student questions online through Piazza and in-person during weekly office hours. Graded student assignments.

Negotiatus

Summer 2017

Software Engineering Intern

Co-developed automated sales lead information validation tool.
Streamlined operations team workflows with Slack integrations and automated price comparison tools integrated with product vendor APIs.
Optimized PostgreSQL queries for up to ~500x faster full-text searches.

Negotiatus

Summer 2016

Software Engineering Intern

Created client-facing system for customers to automatically schedule recurring orders. Set up continuous integration pipeline and co-wrote test suite from scratch for several thousand lines of code with over 70% coverage. Built web scrapers to automate previously manual product price point collection using NLP. Led development of company Ruby style guide.

Projects

(many more at zacharyespiritu.com)

Math Battle

10Under20 at CEWeek 2016 Recipient for Educational Technology

Real-time, online, competitive math puzzle experience on iOS.

Tile, Tap, Push!

7000+ Downloads & "Audience Choice" at Make School Demo Day

Two-player iOS game about tapping tiles in split-screen multiplayer.

Github Dating Simulator

Ruby on Rails web app that analyzes Github profiles and creates best-fit hackathon teams using statistics and the Github API.

Awards

(many more at zacharyespiritu.com)

UI/UX Winner @ Brown University Adobe Design Jam

Oct 2017

2nd Place at Microsoft Coding Challenge @ Brown

Sep 2017

Apple WWDC Scholarship Winner

June 2017

10Under20: Young Innovators to Watch @ CEWeek

June 2016