

LAEL COSTA

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SKILLS

Languages

- » Java
- » C
- » x86 assembly
- » Python
- » Ruby
- » HTML, CSS
- » JavaScript, React.js, Node.js
- » Bash/Zsh
- » German, fluent

Proficiencies

- » LaTeX
- » Adobe CC
- » Unix
- » Git
- » Statistics
- » Algorithms

EXPERIENCE

Teaching Assistant – Brown University

8/2016 – Present

- » Introduction to Computer Systems (CSCI 0330)
- » helped to rewrite assignment handouts and instructor solutions
- » grade assignments and labs
- » answer student questions during hours, over email, and in online forum

Software Engineering Intern – Rent the Runway

6/2016 – 8/2016

- » worked both on front end and back end services for a growing dress rental startup in New York City
- » developed features projected to generate \$1-2 million in revenue in Q3

Teacher – The Wheeler School

9/2015 – Present

- » design lessons and teach five days a week at middle and high school level
- » tutorials include algebra, analysis, German, and programming

Student Researcher – Northwestern University

9/2012 – 7/2014

- » through high school's Student Inquiry & Research program, completed two computer assisted research projects in mathematics department
- » worked with Eric Zaslow to compute properties of Calabi-Yau manifolds
- » with Nir Avni, constructed solution to problem spanning Lie groups, representation theory, and graph theory, and wrote article on NSF grant

PROJECTS

Ezra

10/2016 – Present

- » tournament hosting software for Science Olympiad competition
- » creating scoring infrastructure and dynamic awards presentation

NoodleMaps

8/2016 – Present

- » browser maps program based on OpenStreetMaps data
- » autocompletes addresses, finds directions, click to place pin

Weenix

2/2016 – Present

- » Unix clone, complete with threading, disk driver, TTY, and virtual memory

Hack@Brown

2/2016

- » wrote an app that scheduled Ubers based on realtime flight data
- » featured in Microsoft publication

EDUCATION

Brown University

8/2014 – Present

Sc. B., Computer Science (expected: 5/2018)

GPA: 3.7

Selected Courses:

- » Design and Analysis of Algorithms
- » Introduction to Computer Systems
- » Introduction to Software Engineering
- » Designing, Developing, and Evaluating User Interfaces
- » Operating Systems
- » Cryptography
- » Abstract Algebra
- » Statistical Inference
- » Graph Theory

Illinois Mathematics & Science Academy

8/2011 – 6/2014

Selected Courses:

GPA: 3.7

- » Advanced Problem Solving
- » Real Analysis
- » Linear Algebra