

# Alden Hallak

halal@seas.upenn.edu | 414.982.5336  
aldenhallak.com

## EDUCATION

### UNIVERSITY OF PENNSYLVANIA

#### ENGLISH AND COMPUTER SCIENCE

Expected May 2020

Philadelphia, PA

### BA IN COMPUTER SCIENCE AND ENGLISH

Expected May 2020

College of Arts and Sciences

### LOWER MERION HIGH SCHOOL

Merion Station, PA

Graduated with Honors

## COURSEWORK

CIS 262 Automata Computability and Complexity

CIS 121 Data Structures and Algorithms

CIS 160 Mathematical Foundations of Computer Science

CIS 120 Programming Languages and Techniques

Math 114 Calculus 3

## SKILLS

### PROGRAMMING

Experienced:

Python • Java • C# •

HTML/CSS/JavaScript/JQuery •

Familiar:

BASH • C++ • MySQL •

OCaml • Scikit-Learn • PHP/Laravel •

Objective-C • Cordova/Phone Gap •

Node.js

### LANGUAGES SPOKEN

English • French • Croatian • Arabic

## LINKS

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

LinkedIn: [linkedin.com/in/alden-hallak](https://www.linkedin.com/in/alden-hallak)

### WEBSITES WORKED ON

Arteric.com

WQHSRadio.org

AldenHallak.com

HarrisonMeyer2017.com

seas.upenn.edu/halal/ (the halal zone)

## EXPERIENCE

### ARTERIC | JUNIOR SOFTWARE DEVELOPER/INTERNSHIP

Summer 2017 | Summit, NJ

- Developed software that utilized machine learning and natural language processing to analyze, categorize, and group pay-per-click / AdWords query data with the goal of identifying topically similar queries.
- Used PHP / the Laravel framework and MySQL to store and show query data, which was generated with AdWords data input into Python / Scikit-Learn.
- Assisted in the entry of web content into WordPress CMS, including images, text, HTML and CSS.
- Performed miscellaneous tasks such as data analysis, quality control testing, and clerical work at the request of Arteric personnel.

### UNIVERSITY OF PENNSYLVANIA | TEACHING ASSISTANT FOR CIS 110

Jan 2017 – Present | Philadelphia, PA

- Teach introductory Computer Science in recitation once a week.
- Hold office hours twice a week.
- Grade and contribute to homework.
- Work side by side with fellow TAs to ensure success for all students.

## LESS - RELEVANT EXPERIENCE

### UNIVERSITY OF PENNSYLVANIA | STUDENT WORKER AT THE QUAD INFORMATION CENTER

Nov 2016 - Present | Philadelphia, PA

- Work with specialized computer software at the front desk of the Quad, a residential area belonging to the University of Pennsylvania.

### LOWER MERION TOWNSHIP | LIFEGUARD

Summer of 2015 and 2016 | Philadelphia, PA

- Worked 10 hour days as a lifeguard.
- Developed a small application in Node.js to figure out the best shifts to take in order to maximize rest time.

## ACTIVITIES

### TECH IT OUT! PHILLY | MENTOR

I mentor under Google's IgniteCS Program, helping Philadelphia youth build websites that advocate for social change.

### WQHS STUDENT RADIO | SYSTEMS ADMINISTRATOR / "CTO"

An elected board position where I focus on maintaining and updating the technical side of WQHS Radio, making sure the servers run and constantly adding additional functionality to the WordPress site.

### PENNAPPS | STAFF MEMBER

I work in PennApps Media, where I help prepare for one of the largest student run hackathons.

### HARRISON MEYER'S 2017 BID FOR LOWER MERION SCHOOL BOARD TECHNOLOGY DIRECTOR

I developed and set up hosting for the website of Harrison Meyer's 2017 bid for the Democratic Nomination in Lower Merion Township.

### MISC. HOBBIES

I play bassoon, saxophone, and piano.

I enjoy reading and good comedy as well.