

# Alden Hallak

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## EDUCATION

### UNIV. 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 350 Software Design & Engineering

CIS 320 Introduction to Algorithms

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/aldenhallak](https://github.com/aldenhallak)

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)

## WORK EXPERIENCE

### ARTERIC | JUNIOR SOFTWARE DEVELOPER/INTERM

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.
- A write up of the tool I helped create can be found here: [goo.gl/bQVQR8](https://goo.gl/bQVQR8)

### 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.

### UNIVERSITY OF PENNSYLVANIA | QUAD INFO 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 | 2017-CURRENT

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

### WQHS STUDENT RADIO | SYSTEMS ADMIN | 2017-CURRENT

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: [wqhsradio.org](http://wqhsradio.org)

### PENNAPPS | STAFF MEMBER | 2017-CURRENT

I create media for one of the largest student run hackathons.

### CAMPAIGN FOR SCHOOL BOARD | TECHNOLOGY DIRECTOR | 2017

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 like home automation, currently running HomeAssistant on a Raspberry Pi in my house to control the locks and lights.

I enjoy reading and good comedy as well.