

# 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/](https://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

Summers of 2015-2016 | Lower Merion, PA

## UPCOMING

### INFOSYS | INSTEP INTERN (MACHINE LEARNING/NLP)

Summer of 2018 | Bangalore, India

### UNIVERSITY OF PENNSYLVANIA | RESIDENTIAL ADVISOR

Fall 2018 | Philadelphia, PA

## 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.