Alden Hallak

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

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
LinkedIn: 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/Intern
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

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 PENNVIANIA | 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
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: wqhsradio.org

PENNAPPS | Staff Member
I create media for one of the largest student run hackathons.

HARRISON MEYER FOR 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 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.