

Alden Hallak

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EDUCATION

UNIV. OF PENNSYLVANIA

ENGLISH AND COMPUTER SCIENCE
May 2020 | Philadelphia, PA
Cum Laude

LOWER MERION HIGH SCHOOL

Merion Station, PA
Graduated with Honors

COURSEWORK

CIS 450 Database and Info. Systems
CIS 419 Applied Machine Learning
CIS 350 Software Design & Engineering
CIS 331 Intro. to Networks & Security
CIS 320 Intro. to Algorithms
CIS 262 Automata Computability
CIS 240 Intro. to Computer Systems
CIS 121 Data Structures and Algorithms
CIS 160 Math. Foundations of C.S.
CIS 120 Prog. Languages and Techniques
Math 114 Calculus 3

SKILLS

PROGRAMMING

Experienced:

Python • Java • C# •

HTML/CSS/JavaScript/JQuery • C

Familiar:

BASH • C++ • MySQL •

OCaml • Scikit-Learn • PHP/Laravel •

Objective-C • Cordova/Phone Gap •

Node.js • TensorFlow •

Typescript

LANGUAGES SPOKEN

English • French • Croatian • Arabic

LINKS

Github: github.com/aldenhallak

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

Personal Website: [AldenHallak.com](https://aldenhallak.com)

WEBSITES WORKED ON

Arteric.com

WQHSRadio.org

HarrisonMeyer2017.com

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

WORK EXPERIENCE

GOOGLE | SOFTWARE ENGINEER

Sept 2020 - Current | New York, NY

- Interacting directly with client to design and implement features for internal application.
- Utilizing Java back-end and Angular Typescript front-end for full-stack development.

GOOGLE | SOFTWARE ENGINEERING INTERN

May 2019 - Aug 2019 | New York, NY

- Using Google's Mediapipe to build applied ML pipelines on Hangouts Meet.

INFOSYS | INSTEP INTERN (MACHINE LEARNING/NLP)

Summer 2018 | Bangalore, India

- Built and evaluated vector based and tensor based algorithms for information retrieval.
- Set up and maintained TensorFlow-Serving and Solr Servers.
- Wrote a REACT-API with Flask.
- Interfaced with the API using a demo built in React.js
- Worked with a team to build a ML Search Re-Ranking service.

ARTERIC | JUNIOR SOFTWARE DEVELOPER/NLP 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.
- 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 - 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.

ACTIVITIES

UNIV. OF PENN | RESIDENTIAL ADVISOR | 2018-20

Working as a Residential Advisor, developing a sense of community for 25 culturally diverse freshmen who are new to the University of Pennsylvania.

UNIV. OF PENN | RESEARCH ASSISTANT | 2019

Performing Machine Learning research under Mayur Naik of the University of Pennsylvania.

TECH IT OUT! PHILLY | MENTOR, DIRECTOR | 2017-19, 19-20

Leading Tech It Out Philly, a student-run organization responsible for teaching underrepresented students CS by creating websites about social issues.

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.