

Armaan Tobaccowalla

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Education

University of Pennsylvania

B.S.E. CANDIDATE IN COMPUTER SCIENCE

- Expected Graduation: May 2022
- GPA 3.80/4.00

Philadelphia, PA

Aug. 2018 - Present

Northern Highlands Regional High School

HIGH SCHOOL DIPLOMA

- Weighted GPA: 4.33/4.00

Allendale, NJ

Sept. 2014 - Jun. 2018

Work Experience

Penn Labs

BACK-END ENGINEER

- Implemented an organization-wide back-end API framework using Django to reduce data fragmentation.
- Designed and built an accounts system being implemented across all Penn Labs products and projected to be used by over 10,000 Penn students.

Philadelphia, PA

Sept. 2018 - Present

Projects

Connected Home Network

- Built and maintain an internal intranet composed of two physical and over 25 virtual servers.
- Provides services such as a software firewall, a remote SSH access server, a reverse proxy with TLS certificates, a VPN server with certificate authentication, a wiki for internal documentation, a mail server to send external mail, and a home automation system.
- The network combines various software, custom scripts and configurations to perform the tasks above and more.
- Some software used: FreeNAS, Gitlab, Grafana, InfluxDB, Jekyll, Mediawiki, MySQL, Nginx, OpenHAB, pfSense, Postfix, and Telegraf.

Jul. 2013 - Present

Wage Tracker

- Built an aggregate wage tracker for the U.S. economy created through a principal component analysis of five wage indicators.
- Uses my Automated Economic Graphing Framework to automatically update data and graphs.
- Built by reverse engineering a Goldman Sachs wage tracker.

Feb. 2018

Automated Economic Graphing Framework

- Built a python program to dynamically create visually consistent economic graphs from various data sources.
- The program consists of three parts: information collection, data graphing, and automated updates.

Feb. 2018

Speaker Recognition Utility

- Designed a program using a machine learning algorithm to identify a speaker from a known set using a keyword.
- Designed as part of a machine learning research project conducted during the New Jersey Governor's School in the Sciences.

Jul. 2017

Honors & Awards

2018	National Merit Scholarship Finalist
2018	National AP Scholar
2018	Nominated and selected to attend the New Jersey Governor's School in the Sciences

Skills

Programming Languages Proficient: Java, Python | Experienced: CSS, HTML, JavaScript, PHP
English, Spanish