

# Armaan Tobaccowalla

15 Sunflower Drive, Upper Saddle River, New Jersey

☎ (+1) 201-965-5878 | ✉ armaan@tobaccowalla.com | 🏠 armaan.tobaccowalla.com | 📷 ArmaanT | 🌐 TobaccowallaA

## Summary

Self-driven and highly motivated individual who is fascinated by puzzles and loves to solve problems in day-to-day life. Deeply interested in the intersection of business and technology, specifically how to apply technology to develop and analyze financial models.

## Education

### University of Pennsylvania

Philadelphia, PA

B.S.E. CANDIDATE IN COMPUTER SCIENCE

Aug. 2018 - Present

B.S CANDIDATE IN ECONOMICS WITH A FINANCE CONCENTRATION

Aug. 2018 - Present

- Expected Graduation: May 2022
- GPA 3.82/4.00

### Northern Highlands Regional High School

Allendale, NJ

HIGH SCHOOL DIPLOMA

Sept. 2014 - Jun. 2018

- Weighted GPA: 4.40/4.00

## Experience

### Sierra Ventures (Venture Capital firm with \$2 billion invested)

San Mateo, CA

ANALYST

Jun. 2019 - Jul. 2019

- Researched the HealthTech field, specifically Genomics, to better target Sierra's focus.
- Sourced potential investments using Pitchbook, Crunchbase, and Gartner.
- Recommended 15 companies for follow-up after an initial screening.
- Built a corporate VPN cluster for a portfolio company using Terraform, deployed to AWS.

### Penn Labs (Student-run service provider for Penn community)

Philadelphia, PA

CO-DIRECTOR, TEAM LEAD, BACK-END ENGINEER

Sept. 2018 - Present

- Orchestrating an organization-wide transition to embrace modern DevOps practices, resulting in a more agile environment.
- Created and published several docker images to further streamline and improve reproducibility of deployments.
- Designed and built an accounts system being implemented across all Penn Labs products and projected to be used by around 10,000 Penn students.
- Helped design and build a new product called Penn Clubs to democratize access to information about clubs at Penn and to help students find and communicate with clubs they are interested in.

## Projects

### Connected Home Network (Homelab)

Jul. 2013 - Present

- 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.
- Some software used: FreeNAS, Gitlab, Grafana, InfluxDB, Jekyll, Mediawiki, MySQL, Nginx, OpenHAB, pfSense, Postfix, and Telegraf.

### Wage Tracker

Feb. 2018

- 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.

### Automated Economic Graphing Framework

Feb. 2018

- 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.

### Speaker Recognition Utility

Jul. 2017

- 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.

## Honors & Awards

2019	Dean's List
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: OCaml

**Programming Tools** AWS, Continuous Integration, Django, Docker, Git, Linux, Terraform