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*

- Expected Graduation: May 2022
- GPA 3.84/4.00

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*

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.
- 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.

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