

Neil Shweky

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Education

University of Pennsylvania: School of Engineering and Applied Sciences
Candidate for Bachelor of Science and Engineering, Computer Science
GPA: 3.54/4.0

Philadelphia, Pennsylvania
May 2021 (expected)

- Major in Computer Science with Minors in Mathematics and Data Science
- Relevant Coursework: CIS 419 Applied Machine Learning; CIS 545 Big Data Analytics; CIS 262 Automata, Computability, and Complexity; NETS 212 Scalable and Cloud Computing; CIS 240 Introduction to Computer Systems; CIS 121 Data Structures and Algorithms; CIS 160 Mathematical Foundations of Computer Science; CIS 120 Programming Languages and Techniques II; MATH 513 Computational Linear Algebra

Work Experience

June.ai
Intern

New York, New York
Summer 2019

- Created a Docker Container and deployed it to Google Cloud Platform on their Kubernetes Engine
- Scheduled it to run every day using a Cronjob on the Kubernetes cluster
- Programmed an “Ephemeral Cache” which holds records from MongoDB in memory for fast recovery

Architectronics
Freelance Programmer

New York, New York
Summer 2019

- Built Tattle Tail, an app that allows people to measure pollution in an area and post about it
- Connects to a device via Bluetooth that sends data to the app about the pollution in the area
- Worked on a different project called Word Wall, programming the backend in JS/PHP

ESSutton (Fetch... for Pets; Brand Buzz Consumer Products)
Intern, Freelance Programmer

New York, New York
Summer 2017-2019

- Built out a system to automatically import and export data quickly and easily from Excel to QuickBase.
- Amassed, organized and analyzed large sums of sales data in order to find trends and detect outliers
- Programmed APIs and apps using Express, Node.js, and React.js to pull and display the data

Projects

NETS 212 Facebook Award Winner
Scalable and Cloud Computing

Philadelphia, Pennsylvania
Fall 2018

- Collaborated with small team to create a mini Facebook platform using Node.js, DynamoDB, and EC2
- Designed all of the database code, some frontend code and majority of the integration code between the two
- Won award sponsored by Facebook for the best project over 50+ other teams

CIS 419 Machine Learning Final Project
Applied Machine Learning

Philadelphia, Pennsylvania
Spring 2019

- Worked with small team to learn an ML model that predicts peoples’ reactions to company earnings calls
- Wrote up most of the ML model’s code including wrangling the data into usable form and choosing the algorithm
- Achieved 58% accuracy (which is great for finance models) using Multinomial Naïve Bayes with TF vectors

Sephardic Bikur Holim: Community Service
Volunteer App Developer

Brooklyn, New York
March 2016-Present

- Built two apps for charity organization through which over 5,000 community service hours have been logged
- Stored and queried large sets of data in Firebase databases, while managing hundreds of users
- Used Node.js to build a server and a private API for the app, and created a buddy system for the users

Skills

Computer: Node.js, Python, ML, Cloud Computing, Docker, Objective-C, SQL, Kubernetes, Hadoop, Java, Power BI
App Developer: SBH Youth App, Geometry Cheat Sheet, 100 Berachot Counter, SBH Captain’s Guide, Tattle Tail