Aditya Pethe

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EDUCATION

Texas A&M University Bachelor of Science in Computer Science GPA: 3.94
Bachelor of Science in Applied Mathematics May 2022
Westside High School SAT: 1600/1600 SAT MATH II: 800/800 May 2018

SKILLS

Languages: Python, C++, HTML, CSS, JavaScript, Java, R, SQL
Frameworks: Numpy, Pandas, Matplotlib, Selenium, Beautifulsoup, Git, Node.js

COURSEWORK

- Intro to Operating Systems
- Data Structures and Algorithms
- Discrete Structures
- Advanced Calculus/Real Analysis I
- Putnam Challenge Class
- Statistics I & II

EXPERIENCE

Data Science Intern at Deephaven Data Labs May 2020 – Aug 2020

- Built quantitative financial models using Deephaven, a data ingestion platform that handles petabytes of real time data
- **Published 3 white papers** with Deephaven that helped increase user engagement over **35%**
- Used **Pandas**, **Numpy**, **Sklearn**, and **Fbprophet** to build seasonality, momentum trading, and adverse selection models.

President at TAMU Datathon November 2019 – Present

- Plan and organize the largest MLH **data science hackathon** in the world
- Negotiate sponsorships and coordinate events for hackathon with **2000+ applicants and 600+ participants**

Operations Intern at AmeriPower Inc May 2019 – Aug 2019

- Designed, implemented, and validated a comprehensive price-variance tool in **Python (Pandas)** and VBA with a User-Centered-Design engineering approach to increase throughput
- Streamlined price threshold lookup time in by a **factor of 20** for trading price projections

PROJECTS

Helping Eye at TAMUhack

- **Won 1st Place** for best use of Azure from Microsoft, & best interactive chatbot from Gartner Jan 2020
- Selected as a **finalist** overall for creating a chrome extension chatbot to assist the visually impaired navigate the web
- Developed in team using **React.js** in chrome extension, NLP and ML with Azure's LUIS API, **Node.js** for bot execution
- Made extension **programmable** for developers using LUIS Programmatic API, Node.JS and YAML schema files

Auto Flow at HackPrinceton Nov 2019

- **Won 1st Place for best use of API's** from Stdlib
- Selected as a **finalist** overall for creating service that uses various API's to automate tasks given a set of instructions
- Used natural language processing in **NLTK** and python to create unique **JSON** query language to process strings into trees
- Integrated Slack, Twilio, Google Sheets and Google Speech to text APIs in Stdlib to automate workflows

Full House at HackTX Nov 2019

- **Won 1st Place** for PwC hack for social good challenge, created a web app to assist homeless with inventory management
- Developed in team using React.JS, Express.JS, and MongoDB and hosted on Azure to create a responsive, full stack app
- Built backend data base by scraping thousands of Goodwill items in python and managing database in **MongoDB**

ACHIEVEMENTS

Brockman Scholar May 2018 – Present

- Full ride, merit-based scholarship for STEM degree and M.S in business
- One of 50 students out of 3000+ applicants selected for program

Grace Hopper Celebration Scholarship Aug 2020
U.S Presidential Scholars Candidate May 2018