

SIDDHARTH ENGINEER

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PROFILE

Ohio State University junior seeking an internship in data analytics. Topics of interest include economics, machine intelligence, finance, and sports analytics. Proven ability to learn on the job, operate with minimal oversight, and quickly integrate into new team environments.

EDUCATION

The Ohio State University, B.S. Data Analytics, Honors (GPA: 3.956)

May 2023

- Specialization in Computational Analytics, Minor in Math
- Relevant coursework – CS: Software I & II, Foundations, Intro to Optimization; Data Analytics: Intro to Probability, Statistical Inference, Database Management, Statistical Modeling; Math: Calculus 1-3, Linear Algebra, Differential Equations, Partial Differential Equations

WORK EXPERIENCE

Data Analytics Intern at CapConnect+

June 2021-present

Disruptive, venture backed FinTech company improving how companies access capital in the financial markets

- Analyzed secondary market trading patterns on bond data to assess trends following bond issuance. Created statistical models using R for verifying data sources, cleaning data, and measuring outcomes.
- Developed optimized strategy to lower companies' interest costs. Researched correlations between Treasury rates and credit spreads using the IB-Backtrader library in Python to recommend most efficient hedge timing.
- Established and amplified CapConnect+ social media presence through LinkedIn to enhance brand name and trust amongst investors and corporate treasurers, a critical step in scaling this early-stage company.

TECHNICAL SKILLS

- Java
- Python
- R
- MATLAB
- JavaScript
- C
- GitHub
- Microsoft Office including Excel

PROJECTS

Data Analytics Investment Team

September 2019-Present

- Student organization at Ohio State configuring a wholistic automated investment strategy while utilizing social media, stock market, news, and other data.
- Implemented data management solutions for twitter analysis stage by configuring Amazon S3, AWS Lambda, and Python Tweepy package with sentiment analysis using TextBlob.
- Experimentation with stock-market strategies/indicators using IB-Backtrader Python package
- Organization simulates work environment through weekly meetings and due dates, constant communication, shared repository, internal SSH for retrieving data, and well-rounded team environment.

Hack OHI/O – Annual Hackathon

November 2020

- Began development of a proprietary Chrome Extension (Spider Select) which tracks user interaction with a static webpage through CSS data. Spider Select serves as a variation on publicly used Selector Gadget.
- Working on integration into JavaScript website which performs web scraping and automated tasks.
- Introductory self-learning in JavaScript, CSS datatypes, and Webbot Python library.

Data I/O – Annual Data-Oriented Hackathon

October 2020

- Created data analytics platform for development and testing of new personally devised advanced NFL stats for better representation of team success and total game score.
- Created various algorithms for pulling new advanced stats with peers, used Python Pandas and Numpy packages on dataset including play-by-play data over the last decade.
- Imported summary data into R for testing while aiming for 0.90 regression curve fit to total game score.

Data I/O – Annual Data-Oriented Hackathon

October 2019

- Challenged with finding the optimal location for new Columbus Food Bank pantry while using coordinate data of eligible persons and existing pantries.
- Developed and tested various calculus-based solutions to problem using Python Pandas, Numpy, and Math libraries.
- Won “Best Data Visualization” award for administering K-Means distribution to model coordinate data while using Python scikit-learn library.