Pranav Shukla

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EDUCATION

Michigan State University East Lansing, MI
Bachelor of Science in Computer Science Sep. 2020 – May 2024

TECHNICAL SKILLS

Computer Languages: Python, C++, Java, JavaScript, HTML/CSS, SQL
Technologies: AWS, React, Django, PostgreSQL, Docker, Kubernetes, SpringBoot, Tensorflow, Pandas, UNIX

EXPERIENCE

Software Engineering Intern May 2022 – Aug. 2022
The Vanguard Group *Malvern, PA*
- Developed AWS infrastructure to connect to new stock data providers.
- Created an AWS Lambda hosted Function-as-a-Service (FaaS) which uses Python's boto3 library to crawl through and delete data from Vanguard AWS Glue databases based on specified criteria.
- Wrote unit tests to measure thoroughness of FaaS, and achieved more than 90% coverage rate, ensuring reliability of function across all conditions.
- Configured several Atlassian Bamboo builds using YAML and Java-based plan description language, directing cloud manipulation services to the proper AWS servers.

Business Analyst Intern May 2020 – Aug. 2020
Chime Menu, RecTable LLC. *Ann Arbor, MI*
- Developed strategy to onboard customers, allowing them to easily master the way the software works and implement it into their existing POS systems, and decreasing the onboarding time by 50%.
- Spearheaded production of decks to present competitive analysis results to the chief officers, pinpointing RecTable's outperformance by competitors in areas such as B2C communication and resulting in a 75% customer growth.

Research Assistant Sep. 2021 – Mar. 2022
Intelligent Data Analytics (ILLIDAN) Lab *East Lansing, MI*
- Reviewed and presented my knowledge from 3 deep learning research papers to the Lead Researcher and several other PhD candidates.
- Worked with PhD candidates to integrate LSTMs with deep learning models that use Tensorflow in Python, and applying it to Spatial Neural Networks that analyze Limit Order Books.

Technician Nov. 2021 – Present
Michigan State University ComArtSci *East Lansing, MI*
- Engaged with MSU Staff to ensure network outages were fixed quickly, and servers were kept running.
- Reimaged both Macintosh and Windows computers to conform to MSU IT Security standards.
- Set up WiFi wiring throughout ComArtSci building, giving more than 3,500 people secure access to the internet.
- Ran technical operations and helped over 350 staff and students with problems arising from software and hardware.

PROJECTS

AirFleet | *Python, Django, JavaScript, React, PostgreSQL, AWS, aviationstack API* July 2021 – Present
- Developed a Pilot's Logbook web app that allows users to log-in and add entries to their logbooks, including features such as adding photos and route-waypoint storage.
- Created and connected a PostgreSQL database that stores all data, and is maintained on AWS Lightsail.
- Implemented RESTful architecture with Django for entry, updating, and deletion of logbook data by users, and connected it to a frontend using React to give a smooth user experience.

Stock Correlator | *Python, BeautifulSoup4, SciKit-Learn, Yahoo! Stocks API, pandas* May 2020 – June 2021
- Scraped S&P 500 stock tickers on Wikipedia using Python's BeautifulSoup4 library, and used Yahoo! Stocks API to pull all OHLC data since 2000 into a pandas dataframe.
- Using SciKit-Learn, algorithmically calculated R2 value of Adjusted Closes between 500 companies, which is displayed on to a 500 x 500 matplotlib heatmap, including color-coding for positive and negative correlations.