

Pranav Shukla

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EDUCATION

Michigan State University

Bachelor of Science in Computer Science

East Lansing, MI

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

The Vanguard Group

May 2022 – Aug. 2022

Malvern, PA

- Developed infrastructure to connect to new stock data providers, saving Vanguard nearly \$600,000 per month in subscription expenses.
- Created an AWS Lambda hosted Function-as-a-Service (FaaS) which uses boto3 to crawl through and delete data from Vanguard AWS Glue databases based on specified criteria. Saved employees more than 5,000 hours and counting of manual deletion.

Business Analyst Intern

Chime Menu, RecTable LLC.

May 2020 – Aug. 2020

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

Intelligent Data Analytics (ILLIDAN) Lab

Sep. 2021 – Mar. 2022

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 make LSTMs with Tensorflow in Python, and applying it to Spatial Neural Networks that analyze Limit Order Books.

Student IT Assistant

Michigan State University ComArtSci

Nov. 2021 – Present

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, tracking flights, 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 – Present

- 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.