Pranav Shukla

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Education

Michigan State University

East Lansing, MI

Bachelor of Science in Computer Science

Sep. 2020 - Dec. 2024

Technical Skills

Computer Languages: C/C++, Python, JavaScript/TypeScript, AARCH64, SQL, YAML, HTML/CSS

Technologies: AWS, React, Django, PostgreSQL, Docker, Kubernetes, Tensorflow, Pandas, LINUX, Postman, Flask

Relevant Coursework

Databases, Object Oriented Programming, Algorithm Engineering, Data Structures, Computer Networks

Experience

Software Engineering Intern

May 2023 - Aug. 2023

The Vanguard Group

Malvern, PA

- Engineered DSCR calculations in TypeScript to reduce client computing time, boosting trade performance by 5%
- Implemented a bond trading heatmap using D3 React library to simplify a UI and decrease trader stress by 10%
- Built a **React** hook to fetch and parse data from **S3 buckets**, boosting loading speeds by 25%
- Overhauled Fitch bond grade calculations using Python, boto3, and Flask to improve calculation speeds by 17%

Software Engineering Intern

May 2022 - Dec. 2022

The Vanguard Group

Malvern, PA

- Developed cloud infrastructure with **SpringBoot** to connect traders to data suppliers, saving >\$100,000 / month
- Programmed AWS Lambda hosted FaaS with Python's boto3 library to find and delete data from Glue databases
- Configured 30 Atlassian Bamboo builds with YAML, routing storage manipulation services to proper AWS servers

Research Assistant

Sep. 2021 - Mar. 2022

Intelligent Data Analytics (ILLIDAN) Lab

East Lansing, MI

- Built an automated limit order book with more than 12,000 realistic buys and sells to train a TensorFlow model
- Integrated **LSTM** modules in an SNN to predict limit order book trades, growing simulated trade volumes by 15%

Technician

Nov. 2021 - May 2022

Michigan State University ComArtSci

- East Lansing, MI
- Ran technical operations and helped over 350 staff and students with technical problems
- · Collaborated with staff to fix 5 network outages and provide support when faculty and students were effected
- Set up ethernet wiring throughout building, giving more than 3,500 people secure access to the internet

Business Analyst Intern

May 2020 – Aug. 2020

Chime Menu, RecTable LLC.

Ann Arbor, MI

- Architected and implemented new strategy for customer onboarding, decreasing client training times by 50%
- Increased sales 75% by presenting competitive analysis decks to chief officers and changing product strategy

Projects

AirFleet | Django, React, PostgreSQL, AWS Lightsail, Auth0, aviationstack

July 2021 - September 2022

- Engineered a user login page using AuthO for isolated and secure account access
- Created a PostgreSQL database to store all data, and is maintained on AWS Lightsail
- Implemented RESTful architecture with Django for entry, updating, and deletion of logbook data by users
- Connected **Django** to a **React** frontend to provide a smooth user experience

Stock Correlator | BeautifulSoup4, SciKit-Learn, pandas, Yahoo! Stocks API

May 2020 - June 2021

- Scraped S&P 500 stock tickers on Wikipedia using Python's BeautifulSoup4 library
- Used Yahoo! Stocks API to pull all OHLC data since 2000 into a pandas dataframe
- Algorithmically calculated R value of Adjusted Closes between companies using SciKit-Learn
- Creates 500 x 500 matplotlib heatmap, including color-coding for positive and negative correlations