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++, JavaScript, YAML, HTML/CSS, SQL
Technologies: AWS, React, Django, PostgreSQL, Docker, Kubernetes, Tensorflow, Pandas, UNIX, Atlassian Suite

Experience

Software Engineering Intern   May 2022 – Aug. 2022
The Vanguard Group   *Malvern, PA*
- Assisted with development of Vanguard's cloud infrastructure to connect to new stock data providers, saving more than $100,000 per month in subscriptions
- Programmed an **AWS Lambda** hosted Function-as-a-Service which uses **Python's boto3** library to crawl through and delete data from Vanguard **AWS Glue** databases
- Wrote unit tests with **pytest** to achieve 100% test coverage of Lambda function
- Configured 30 **Atlassian Bamboo** builds with **YAML**, routing storage manipulation services to proper AWS servers

Business Analyst Intern   May 2020 – Aug. 2020
Chime Menu, RecTable LLC.   *Ann Arbor, MI*
- Decreased onboarding time **50%** by developing strategy to onboard customers to RecTable's ordering system
- Developed onboarding policies for mastery of software and effortless implementation into existing POS systems
- Increased customer numbers **75%** by presenting competitive analysis decks to chief officers and changing product strategy

Research Assistant   Sep. 2021 – Mar. 2022
Intelligent Data Analytics (ILLIDAN) Lab   *East Lansing, MI*
- Reviewed and presented knowledge from **3 deep learning research** papers to the Lead Researcher and several other PhD candidates
- Worked with researchers to integrate **long short-term memory** modules with **Spatial Neural Networks** that analyze limit order books

Technician   Nov. 2021 – Present
Michigan State University ComArtSci   *East Lansing, MI*
- Ran technical operations and **helped over 350 staff and students** with technical problems
- Collaborated with staff to counter network outages and provide support when faculty and students were effected
- Set up WiFi wiring throughout ComArtSci building, giving **more than 3,500 people** secure access to the internet

Projects

AirFleet | *Python, Django, JavaScript, React, PostgreSQL, AWS, aviationstack API*   July 2021 – Present
- Developed Pilot Logbook web app that allows users to log-in and add entries to their logbooks, including entries such as trip 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
- Connected Django to a **React** frontend to provide 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
- Used **Yahoo! Stocks API** to pull all OHLC data since 2000 into a **pandas** dataframe
- Algorithmically calculated R value of Adjusted Closes between 500 companies using **SciKit-Learn**
- Creates 500 x 500 **matplotlib heatmap**, including color-coding for positive and negative correlations