

# 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++, JavaScript, 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 nearly \$600,000 per month in AWS costs.
- 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.
- Wrote unit tests with pytest to achieve 100% test coverage, proving reliability of Lambda function.
- Configured 30+ Atlassian Bamboo builds using YAML, directing storage manipulation services to the proper AWS servers.

### Business Analyst Intern

May 2020 – Aug. 2020

*Chime Menu, RecTable LLC.*

*Ann Arbor, MI*

- Decreased onboarding time up to 50% by developing strategy to onboard customers to RecTable's ordering system.
- Developed onboarding policies for client 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 Python Tensorflow deep learning algorithms, and applying it to 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 problems arising from software and hardware.
- Collaborated with MSU 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 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 onto a 500 x 500 matplotlib heatmap, including color-coding for positive and negative correlations.