

# 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 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

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 integrate LSTMs with deep learning models that use Tensorflow in Python, and applying it to Spatial Neural Networks that analyze Limit Order Books.

### Technician

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 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.