

# Pranav Shukla

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## Education

### Michigan State University

Bachelor of Science in Computer Science

East Lansing, MI

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

## Experience

### Software Engineering Intern

May 2022 – Dec. 2022

The Vanguard Group

Malvern, PA

- Developed cloud infrastructure to connect to market data suppliers, resulting in savings of >**\$100,000** / month
- Programmed a **Lambda** hosted FaaS which uses **Python's boto3** library to crawl through and delete data from **AWS Glue** databases
- Configured 30 **Atlassian Bamboo** builds with **YAML**, routing storage manipulation services to proper AWS servers

### Software Engineering Intern

May 2023 – Aug. 2023

The Vanguard Group

Malvern, PA

- Re-engineered Debt Service Coverage Ratio calculations in **TypeScript** to be more accurate and maintainable, improving bond trading performance by 5%
- Implemented a bond trading heatmap using the **D3** React library to modernize an older interface and ease stress on traders
- Created a **React** hook to retrieve data from an **S3 bucket** and parse it into an interface to increase processing speeds by 25%

### 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%
- Developed onboarding policies for mastery of software and effortless implementation into existing POS systems
- Increased sales **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 – 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 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