Pranav Shukla

+1(248)-403-0495 | pranavshuklajobs@gmail.com | linkedin.com/in/pranavshhh/ | github.com/FireTeamSix

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

Experience

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

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 bond trading heatmap using **D3** React library to modernize an interface and ease stress on traders
- Built a **React** hook to fetch and parse data from **S3 buckets**, boosting loading 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 Principal Investigator and 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 login to accounts 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 companies using **SciKit-Learn**
- Creates 500 x 500 **matplotlib heatmap**, including color-coding for positive and negative correlations