SHASHANK VEMURI

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EDUCATION

North Brunswick Township High School   September 2018 - June 2021
Relevant Coursework: AP CS Principles, AP Statistics, AP Calculus BC   GPA: 4.7/4.0

EXPERIENCE

Alpaca Markets   April 2022 - October 2022
Software Engineer - DX   San Mateo, CA/U.S. (Remote)

· Engineered v2 of the official Alpaca **Python** SDK that allows developers to connect to the Broker API and build investment services such as RIAs and broker-dealers which has led to a 35% increase in the number of outstanding live applications
· Spearheaded the creation of a GitHub repository with 10+ **Jupyter** research notebooks with step-by-step technical guides on how to use the Alpaca Python SDK to build complex quantitative trading algorithms (1,000+ downloads)

Bloom (YCS21)   October 2021 - December 2021
Software Engineer - Full Stack   San Francisco, CA/U.S. (Remote)

· Singlehandedly designed and developed a virtual stock market game using **Next.js**, **Node.js**, and **Firebase** for 100,000+ teenage users to interactively and collaboratively learn about long-term investing without risking real capital
· Implemented the functionality to make individual accounts and create multiplayer games with **TypeScript** which added 15,000+ platform users and led to a 45% increase in the investing confidence of newly converted brokerage account customers

Knowt   January 2020 – October 2021
Software Engineer - Frontend   Lewes, DA/U.S. (Remote)

· Achieved a 64% decrease in bounce rate from the web app by using **Next.js** to develop four entirely new design iterations, each focused on quickly communicating the company value proposition of automatically generated quizzes/flashcards
· Doubled the SEO Lighthouse score and subsequently increased new web app traffic by about 4,000 visits/month by adding mobile responsiveness, fixing performance bugs, and developing significant improvements to site speed with **JavaScript**

FinX   July 2020 – September 2020
Software Engineer - Full Stack   Virginia Beach, VA/U.S. (Remote)

· Accomplished a 32% higher user 3-week retention rate by using **React**, **Tailwind CSS**, and **Node.js** to build user experience updates (chat bot, interactive competitor services comparison, etc.) to the company's financial services web app
· Developed both a daily stock market related question poll used by more than 70% of 10,000+ active users and a real-time stock news sentiment analysis dashboard into the mobile app using **Flask**, **NLTK**, and **React Native**

PROJECTS

TradeView   May 2020 - Septmber 2020
Python, HTML, JavaScript, Flask, Heroku
· Created an interactive web app with 2,500+ DAU that displays hundreds of live stock market metrics and signals

Quantitative Finance   March 2020 - September 2020
Python, Pandas, NumPy, Matplotlib
· Sole contributor to GitHub repository with 150+ financial engineering Python programs (600+ Stars, 150+ Forks)

CookBookCV   July 2020
Swift, Python, OpenCV, NumPy, Flask
· Built a mobile app that allows users to take a picture of their ingredients and get recommended recipes in approx. 6 seconds

SKILLS & INTERESTS

Languages	Python, JavaScript, TypeScript, SQL, Golang, HTML, CSS
Technologies	React, Node.js, Express.js, Next.js, Bootstrap, jQuery, Flask, Django, Streamlit, Pandas, Matplotlib, NumPy, Selenium, BeautifulSoup, Scikit-Learn
Software	Git/GitHub, Heroku, MongoDB, Postman, MySQL, Firebase, Figma
Interests	Basketball, Investing, Poker, Hip-Hop, Startups, Writing, Reading