

# SHASHANK VEMURI

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## EDUCATION

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**University of Michigan - College of Literature, Science, and the Arts**

August 2023 - Expected May 2026

B.Sc in Data Science & Minor in Economics

Relevant Coursework: Programming and Intro Data Structures, Discrete Math

Activities & Societies: v1, Entrepreneur Power Hour, Michigan Investment Group (Quant), Michigan Poker Team

## EXPERIENCE

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**Alpaca Markets**

April 2022 - October 2022

*Software Engineer - Developer Experience*

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 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 (10,000+ downloads)

**Bloom (YCS21)**

October 2021 - January 2022

*Software Engineer - Full Stack*

San Francisco, CA/U.S. (Remote)

- 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)

- Increased 1-month user retention rate by 32% 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

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**Quantitative Finance**

March 2020 - April 2023

*Python, Pandas, NumPy, Matplotlib, Scikit-Learn*

- Sole contributor to GitHub repository with 150+ financial engineering Python programs (1.2k+ Stars, 250+ Forks)

**TradeView**

May 2020 - January 2021

*Python, HTML, JavaScript, Flask, Heroku*

- Created an interactive web app with 2,500+ DAU that displays hundreds of live stock market metrics and signals

**CookBookCV**

December 2020

*Python, Swift, OpenCV, Flask*

- Built a mobile app that allows users to take a picture of their groceries and get recommended recipes within 6 seconds

## SKILLS & INTERESTS

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**Languages**

Python, JavaScript, TypeScript, C++, HTML, CSS, SQL

**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

**Interests**

Basketball, Trading, Poker, Hip-Hop, Startups, Writing, Reading