# SHASHANK VEMURI

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#### **EDUCATION**

University of Michigan

Bachelor of Science in Data Science

Expected 2026

Ann Arbor, MI

Relevant Coursework: Data Structures and Algorithms, Discrete Math, Programming and Intro Data Structures Activities & Societies: Alpha Kappa Psi Professional Business Fraternity, Michigan Investment Group, V1 Michigan

### **EXPERIENCE**

Alpaca Markets

April 2022 - October 2022

San Mateo, CA

Software Engineer

- Engineered v2 of the official Alpaca Python SDK to allow developers to connect to the Broker API and build investment services such as broker-dealers, neobanks, and RIA's 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 v2 Alpaca Python SDK to build live algorithmic trading bots leading to over 10,000 new developer sign-ups

Bloom (YCS21)

October 2021 - January 2022

San Francisco, CA

Software Engineer

- Single-handedly designed, developed, and launched a multiplayer virtual stock market game using Next.js, Node.js, and
- Firebase for over 100,000 teenage users to simulate any custom strategy or replicate popular portfolios in a risk-free manner • Implemented an interactive learning platform with 300+ gamified mini-lessons on financial basics leading to a 27% increase in
- user engagement on the app and a 45% increase in the investing confidence of newly converted brokerage account customers

Knowt

January 2020 - October 2021

- Software Engineer
- Achieved a 64% decrease in bounce rate from the web app home page over 6 months by using **Next.js** to develop and A/B test 4 design iterations, each focused on showcasing the product's value proposition and strategically timing sign-up prompts
- Doubled the SEO Lighthouse score which resulted in increased web app traffic from Google by ~15,000 visits/month by adding mobile responsiveness, fixing performance bugs, and developing significant improvements to website speed with JavaScript

FinX

July 2020 – September 2020

Virginia Beach, VA

- Software Engineer
- Increased 1-month user retention rate by 32% using **React**, **Tailwind**, and **Node.js** to build new features such as a dynamic stock charting analysis similar to TradingView and a gamified chatbot using GPT-2 for users to learn about financial literacy
- Developed a real-time news sentiment analysis dashboard and per-stock daily polls using Flask, NLTK, and React Native, introducing a gamified rewards system that engaged 65+% of 10,000+ daily active users and increased revenue by 5-figures

#### **PROJECTS**

Quantitative Finance

March 2020 - April 2023

• Developed and maintained a GitHub repository with over 1,800 stars and 300 forks focused on financial engineering, featuring 150+ Python programs for data gathering, manipulation, and analysis to help traders automate and improve their strategies

**TradeView** May 2020 - January 2021

Created an interactive financial data web app with 2,500+ daily active users that displayed hundreds of stock market fundamental metrics, technical analysis signals, and customizable buy/sell ratings in real-time using Python and JavaScript

cookbookCV December 2020

Built an iOS application using Python, Flask, Swift, Yolov3 object detection, and the COCO dataset, to analyze useruploaded grocery images, accurately identify ingredients, and dynamically suggest recipes in an effort to decrease food waste

## ADDITIONAL

- Writer on Medium about quant finance and trading stocks for over 4 million readers, recognized as a top 50 writer in Finance
- · Poker player for the University of Michigan team, studying game theory and playing in tournaments against Top 20 colleges
- Enjoyer of a diverse range of sports including basketball, weight lifting, soccer, running, biking, swimming, and table tennis

## **SKILLS**

Languages **Technologies** 

Software

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

React, Node.is, Express.is, Next.is, Flask, Django, Pandas, NumPv

Git/GitHub, Heroku, MongoDB, Postman, MySQL, Firebase