

# Shashank Vemuri

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## EDUCATION

**NORTH BRUNSWICK TWP. HS**  
BUSINESS ACADEMY - FINANCE  
Class of 2021 | N Brunswick, NJ  
GPA: 4.7/4.0 | SAT: 1510/1600

## COURSEWORK

- AP Statistics
- AP Calculus BC
- AP CS Principles
- AP Macroeconomics
- AP Microeconomics

## ACHIEVEMENTS

- Medium Top 50 Most Influential Writer in Finance (1M+ views)
- 2nd Place Pennapps XX Goldman Sachs Fintech Hackathon Challenge
- 3-Time AIME Qualifier (AMC 12)

## SKILLS

### LANGUAGES

- Python • JavaScript • Golang
- TypeScript • HTML • CSS
- SQL • Swift • LaTeX

### FRAMEWORKS

- Flask • Django • Selenium
- TensorFlow • MySQL • jQuery
- React • Bootstrap • Node.js
- Express.js • Next.js

### TOOLS

- Git/GitHub • Heroku • XCode
- Postman • MongoDB • AWS S3
- Firebase • VS Code • Figma

### LIBRARIES

- Pandas • NumPy • Matplotlib
- Scipy • Streamlit • Scikit-Learn
- BeautifulSoup • SQLite

## INTERESTS

- Basketball • Investing • Hip-Hop
- Anime • Breaking Bad • Reading
- Podcasts (HIBT, Acquired)

## LINKS

- Website:// shashankvemuri
- Github:// shashankvemuri
- Medium:// shashank-vemuri
- LinkedIn:// shashank-vemuri

## EXPERIENCE

### BLOOM (YCS21) | SOFTWARE ENGINEER

October 2021 – December 2021 | San Francisco, CA/U.S. (Remote)

- Singlehandedly led the design/development of a multiplayer stock market game for 12,000+ users to learn about investing without risking real capital
- Built the functionality to make accounts, create games, buy/sell stocks, and track real-time performance using TypeScript, Next.js, Node.js, and Firebase

### KNOWT | SOFTWARE DEVELOPMENT & PRODUCT MANAGEMENT

September 2019 – December 2021 | Lewes, DA/U.S. (Remote)

- Achieved a 64% decrease in bounce rate from the landing website over 2 years by using Next.js to develop four entirely new design iterations
- Increased web traffic by 4,000 new users/month (doubled Lighthouse SEO score) using JSX to fix bugs and develop major improvements to site speed

### NJIT | QUANTITATIVE FINANCE RESEARCH

April 2019 – November 2020 | Newark, NJ/U.S. (Remote)

- Automated a model to recognize undervalued stocks through analyzing the statistical distributions (KDE, student's t) of 5,000+ stock returns with Scipy
- Collected 10,000,000+ stock beta/alpha values from over 20 years using Pandas to identify how they change during market corrections vs. uptrends

### GINI INVESTMENTS | SOFTWARE ENGINEER

June 2020 – October 2020 | Philadelphia, PA/U.S. (Remote)

- Reached 87% accuracy for forecasting positive returns over a 3-month lookback period by building an algorithmic trading bot with the Alpaca API
- Expanded user investments by over 55% by creating a new web app with Next.js and Node.js for users to learn about and use the company's services

### TRADEVIEW | FOUNDER

May 2020 – October 2020 | North Brunswick, NJ/U.S. (Remote)

- Engineered an interactive web app with over 2,500 daily active users using Flask, HTML, and JS that displays hundreds of live stock market metrics
- Attained 10,000+ hours of usage on a Flask/Heroku REST API containing 50+ routes with data on stock news, ratios, signals, and recommendations

### FINX | SOFTWARE ENGINEER

July 2020 – September 2020 | Virginia Beach, VA/U.S. (Remote)

- Accomplished a 32% higher user 3-week retention rate by rebuilding the company's financial services web app with React, Tailwind CSS, and Node.js
- Implemented a stock news sentiment analysis model with nltk and a daily poll functionality for 10,000+ mobile app users using React Native

## PROJECTS

### QUANTITATIVE FINANCE:

- Sole contributor to GitHub repository with 250+ Python programs related to finding stocks and improving investment performance (400+ Stars, 100+ Forks)

### COOKBOOKCV:

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

### INVESTMENTS TRACKER:

- Developed a web app with React and MySQL that allows stock market investors to view 10+ performance-based and fundamental metrics about their holdings