# Shashank Vemuri

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## EDUCATION

**NORTH BRUNSWICK TWP. HS**
**BUSINESS ACAD. - FINANCE PATH**
Class of 2021 | N Brunswick, NJ
GPA: 4.7/4.0

**TEST SCORES**
• SAT: 1510/1600 (Top 1%)
• AP CS Principles: 5/5
• AP Calculus BC: 5/5
• AP Statistics: 5/5

## COURSEWORK

**COMPLETED**
• Innovation, Creativity, and Entrepreneurship (Rutgers Univ.)
• AP Computer Science Principles
• AP Microeconomics
• AP Calculus BC
• AP Statistics

## CLUBS/ACTIVITIES

• Technical Lead of Technology Club
• FBLA Director of Public Relations
• DECA (Business Organization)
• Math League

## SKILLS

**LANGUAGES**
· Python · HTML · CSS · SQL · R
· JavaScript · TypeScript · Swift
· Octave · LaTeX · Go · Java

**FRAMEWORKS**
· Flask · Django · Selenium
· TensorFlow · MySQL · jQuery
· Bootstrap · Node.js · Express
· React · React Native

**TOOLS**
· Git/GitHub · Heroku · XCode
· Postman · MongoDB · Android
· Excel · AWS S3 · VS Code

**LIBRARIES**
· Pandas · NumPy · Matplotlib
· Scipy · Streamlit · Scikit-Learn
· Urllib · Smtplib · SQLite
· BeautifulSoup · Quantmod

## INTERESTS

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

## LINKS

• Website:// shashankvemuri
• Linkedin:// shashank-vemuri
• Github:// shashankvemuri
• Medium:// shashank-vemuri

## EXPERIENCE

**KNOWT** | SOFTWARE DEVELOPMENT & BUSINESS OPERATIONS
September 2019 – Present | Lewes, DA/U.S. (Remote)
- Achieved a 43% decrease in bounce rate from the landing website by using JavaScript, CSS, and HTML to create blog, team, and FAQ pages
- Increased web traffic by an average of 4,000 new users per month by using HTML to fix usability bugs and develop major improvements to site speed

**NJIT** | QUANTITATIVE FINANCE RESEARCH INTERN
April 2019 – November 2020 | Newark, NJ/U.S. (Remote)
- Analyzed the statistical distributions (normal, KDE, student's t) of 5,000+ stock returns using Scipy to automate recognizing undervalued stocks
- Collected 10,000,000+ stock beta/alpha values from over 20 years using Pandas to identify how they change during corrections vs. bull markets

**GINI INVESTMENTS LLC** | SOFTWARE ENGINEER
June 2020 - October 2020 | Philadelphia, PA/U.S. (Remote)
- Reached 87% accuracy for forecasting positive returns over a 3-month period by building a stock screener with Pandas, NumPy, and the Alpaca API
- Expanded user base by over 50% by creating a web app with HTML and JS for users to learn about and use the company's investment services

**TRADEVIEW** | FOUNDER + CREATOR
May 2020 - October 2020 | North Brunswick, NJ/U.S. (Remote)
- Engineered an interactive web app with over 2,500 active users using Flask, HTML, and JQuery which displays hundreds of live stock market metrics
- Attained 5,000+ 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 15% higher customer satisfaction in the company's resources by building a web app with React, Node.js, and the Stripe API
- Grew the average website visit duration by 32 seconds by recreating a more informative page with HTML, Bootstrap, and AWS S3 Buckets

## PROJECTS

**QUANTITATIVE FINANCE:**
• Developed over 250 open-source Python programs to help investors find growth stocks, optimize their portfolios, and improve performance in the stock market primarily using NumPy, Pandas, Matplotlib, and Scikit-Learn (300+ Stars)

**INVESTMENTS TRACKER:**
• Created a web application with React and MySQL that allows investors to keep track of and see 10+ performance-based and fundamental metrics about their stock market investments in real-time

**COOKBOOKCV:**
• Invented an app with NumPy, Flask, OpenCV, and Swift iOS that allows users to take a picture of their leftover food and get recipe recommendations with tailored instructions within 6 seconds

## AWARDS

**MEDIUM:**
• Honored as a top 50 most influential writer in Finance/Investing (300k+ views)

**2020 AMERICAN MATHEMATICS COMPETITION:**
• Placed top 100 for AMC 12B and top 150 for AMC 12A globally among thousands of 10th graders (Distinction Honor) + 2-time AIME Qualifier

**2019 NATIONAL MATHCON COMPETITION:**
• Ranked 2nd in New Jersey and top 50 nationally out of 10,000+ 9th graders