

# Vatsal Maniar

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## SUMMARY

M.S. Financial Engineering student with Computer Science background, specializing in derivatives, risk, and capital markets. Build and ship fintech platforms and analytics tools; apply stochastic modeling, time series, and Monte Carlo to pricing and risk. Seeking internships in quant trading, risk, and capital markets.

## EDUCATION

<b>Stevens Institute of Technology</b> <i>Master of Science in Financial Engineering</i>   GPA: Pending	Hoboken, NJ Sep 2025 – Dec 2026
<b>Arizona State University</b> <i>Bachelor of Science in Computer Science</i>   GPA: 3.74/4.00, Magna Cum Laude	Tempe, AZ Aug 2021 – May 2025

## EXPERIENCE

<b>Alcove Ridge Consulting LLC</b> <i>Software &amp; Platform Development Intern (Capstone Project)</i>	Remote Sep 2024 – Jun 2025
<ul style="list-style-type: none"><li>Designed investor dashboards and analytics tools for private markets platform, enabling real-time monitoring of asset performance and capital allocation.</li><li>Built workflows and integrated APIs to improve deal evaluation and internal operations by 40–60%, directly supporting investment decision-making</li></ul>	
<b>ASU Capital Assets Management Office</b> <i>Asset Specialist</i>	Tempe, AZ May 2024 – May 2025
<ul style="list-style-type: none"><li>Coordinated tagging of equipment valued over \$5000 and maintained asset records using Workday.</li><li>Assisted in managing \$1.5B in ASU's capital assets by streamlining data entry processes and collaborating with auditors.</li></ul>	
<b>ASU EOSS Technology Team</b> <i>IT Project Management Consultant</i>	Tempe, AZ Jun 2024 – Sep 2024
<ul style="list-style-type: none"><li>Directed 15-member team delivering infrastructure upgrades via network optimization and automation.</li></ul>	
<b>ASU Admission Services</b> <i>Verification Supervisor</i>	Tempe, AZ May 2022 – May 2024
<ul style="list-style-type: none"><li>Led a 60-member team, establishing record benchmarks in speed, accuracy, and compliance for 30,000+ applicant records.</li><li>Streamlined on-boarding and training programs, boosting team productivity by 30% while maintaining a 98% accuracy rate in sensitive data processing.</li></ul>	
<b>Ira A. Fulton Schools of Engineering, ASU</b> <i>Undergraduate Teaching Assistant (FSE 100)</i>	Tempe, AZ Aug 2023 – Dec 2023
<ul style="list-style-type: none"><li>Provided academic support to 40 students, collaborating with instructor to optimize teaching strategies, clarifying complex concepts, resulting in 25% increase in average quiz scores.</li></ul>	

## ACADEMIC PROJECTS

<b>EquityQuest</b> — C#, MVC, HTML/CSS/JS	May 2024 – Jul 2024
<ul style="list-style-type: none"><li>Developed stock market trading simulator covering 100+ equities and ETFs, implementing order execution, portfolio tracking, and P&amp;L reporting.</li><li>Modeled market microstructure by simulating price dynamics driven by systematic factors and idiosyncratic events, enabling risk-return analysis of trading strategies.</li></ul>	
<b>MetricSphere</b> — C#, ASP.NET, REST, APIs	Aug 2023 – Dec 2023
<ul style="list-style-type: none"><li>Deployed financial analytics portal on ASU servers aggregating 5+ APIs for cross-asset, weather, and geolocation insights</li><li>Implemented role-based access and XML encryption to enable tiered data consumption</li></ul>	

## TECHNICAL SKILLS

**Languages:** Python, R, MATLAB, Excel (Advanced Modeling, VBA), Java, C/C++, C#, JavaScript  
**Frameworks/Tools:** React, Next.js, Node.js, ASP.NET MVC, Tailwind, Shadcn, tRPC, Git, Docker, Jira, Asana, Trello  
**Finance/Platforms:** Bloomberg Terminal, Capital IQ, LSEG Workspace, Thomson Reuters Eikon, Workday  
**Methods:** Derivatives Pricing, Monte Carlo, Time-Series Analysis, Portfolio Optimization, Risk Management