

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

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

EXPERIENCE

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

ACADEMIC PROJECTS

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

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