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 — Hoboken, NJ
Master of Science in Financial Engineering | GPA: Pending — *Sep 2025 – Dec 2026*

Arizona State University — Tempe, AZ
Bachelor of Science in Computer Science | GPA: 3.74/4.00, Magna Cum Laude — *Aug 2021 – May 2025*

EXPERIENCE

Alcove Ridge Consulting LLC — Remote
Software & Platform Development Intern (Capstone Project) — *Sep 2024 – Jun 2025*
- 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 — Tempe, AZ
Asset Specialist — *May 2024 – May 2025*
- 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 — Tempe, AZ
IT Project Management Consultant — *Jun 2024 – Sep 2024*
- Directed 15-member team delivering infrastructure upgrades via network optimization and automation.

ASU Admission Services — Tempe, AZ
Verification Supervisor — *May 2022 – May 2024*
- 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 — Tempe, AZ
Undergraduate Teaching Assistant (FSE 100) — *Aug 2023 – Dec 2023*
- 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
- 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
- Deployed financial analytics portal on ASU servers aggregating 5+ APIs for cross-asset, weather, and geolocation insights
- Implemented 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