Steven DeFalco

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Education

Stevens Institute of Technology Hoboken, NJ
MBA & MS in Applied Artificial Intelligence *January 2025 – May 2026*
BS in Computer Science, Highest Honors (GPA: 3.86) *September 2021 – December 2024*

Experience

Quant New York, NY
Solutions Engineer *November 2025 - Present*

− Partner with sales and enterprise clients to define requirements and rapidly build full-stack MVPs, agentic AI pipelines, and executive-level demos (Python/JS, ElevenLabs, React, MongoDB), translating business needs into technically feasible solutions in a fast-paced pre-sales environment.

TCE Great Neck, NY
AI Solutions Engineer *May 2025 - October 2025*

− Led end-to-end redesign of an Azure-native AI chatbot for internal engineers, executives, and estimators—integrating query rewriting and hybrid semantic/vector retrieval (Azure AI Search, OpenAI API, Python, LlamaIndex). Boosted *good-answer rate* from $50\% \rightarrow 98\%$ and *answer rate* from $74\% \rightarrow 98\%$ on a 100-query A/B test, enabling rapid access to insights across hundreds of sensitive contract and technical documents, ensuring data privacy compliance.
− Fully rebuilt document ingestion & RAG pipeline (LlamaParse $\rightarrow$ Markdown, custom chunking, embeddings; Azure Blob + SQL; Azure AI Search index), increasing *top-1 citation relevance rate* from $32\% \rightarrow 76\%$ and *highlight accuracy rate* from $10\% \rightarrow 56\%$. Collaborated with non-technical stakeholders to define requirements and present results.
− Designed, developed, and deployed a tunnel-clearance calculator PWA in Ionic/React (TypeScript) for offline field use, replacing manual and paper-based clearance checks. Enabled in-field safety verification for MTA-regulated tunnel installations, reducing turnaround and mitigating risk of costly compliance violations. Delivered native-like UX with offline caching, in-app updates, and CSV export in owner-specified format, hosted on Azure.

Innovation Engineering Intern *May 2024 - August 2024*

− Automated migration of 1,000+ LMS courses using Python (Pandas, Playwright), demonstrating scalable automation.
− Built Azure Timer Functions to sync HR and LMS data in near real time, enabling accurate mass training assignments.
− Delivered a secure React portal for hosting site drone imagery, providing open team access and avoiding licensing costs.

Pixel Light Digital Media Lyndhurst, NJ
Software Testing & Quality Assurance Analyst *June 2022 - August 2022*

− Led testing of real-time computer vision system for convention booth engagement tracking; improved distance prediction accuracy to within 2 ft. in 50 ft. range. Produced business insights using 51k+ data points to optimize booth layouts and increase marketing ROI. Collaborated with developers to deliver stability and reliability to enterprise clients.

Projects

@predictMLB (Summer 2023): Built and deployed an autonomous X/Twitter bot on AWS Lightsail (Python, MLBStats-API, cron) that posts same-day MLB game predictions using a custom LightGBM model trained on over 5 years of historical data with fully automated data pipelines, achieving 66% predictive accuracy on a 1,100-game backtest.

Coursework

NLP, Computer Vision, Deep Learning, Database Management, Statistics, Data Structures & Algorithms

Skills and Technologies

Languages: Python, SQL, TypeScript, JavaScript
Technologies: Azure, Azure Functions, Azure AI Foundry, OpenAI API, LlamaIndex, LLMs, RAG, MCP, React, Node.js/Express, MongoDB, ElevenLabs (STT/TTS), Git, CI/CD, Linux, Prompt Engineering, LaTeX

Leadership & Community

Vice-President of Alpha Sigma Phi (Alpha Tau): Led a 40-member chapter; oversaw 25 events/semester; achieved a 91% median attendance rate; coordinated event logistics and scheduling; oversaw conflict resolution.