

ANISH GUNTREDDI

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EDUCATION

Georgia Institute of Technology

M.S. Computer Science, Thesis Option, GPA: 4.0

Atlanta, Georgia

May 2028

University of Miami

B.S. Computer Science, B.S. Data Science & Artificial Intelligence, B.S. Mathematics

Miami, Florida

May 2026

EXPERIENCE

Veritas Prime

AI Consultant Engineer / Process Engineering Consultant

Orlando, Florida

Apr 2026 - Aug 2026

- Designed and shipped enterprise agentic software with Python and TypeScript, LangChain/LangGraph, RAG, APIs, retrieval, planning, and structured tool execution, owning architecture through deployment and iteration.
- Built reusable integrations and workflow components across SAP SuccessFactors and Salesforce, translating ambiguous stakeholder requirements into maintainable services, prototypes, and production automations.
- Added validation, logging, monitoring, retries, recovery, regression checks, and human review to surface failure modes and improve reliability, observability, and confidence in production AI workflows.

Synaptix

Co-Founder and Founding Machine Learning Engineer

Coral Gables, Florida

Oct 2025 - Present

- Co-founded Synaptix, an Inventor's Ignite Award-winning USTAAR neuromuscular-interface project advancing through the University of Miami inventor program toward patent filing; lead the ML work for physiological-signal classification and real-time inference.
- Built the Python/PyTorch pipeline for acquisition, denoising, segmentation, feature construction, training, and evaluation; improved movement classification by ~30% over a rule-based baseline and profiled sub-100ms inference.
- Integrated ML with FastAPI, Kotlin, BLE/Arduino, and device-control software while debugging data-quality, timing, communication, and cross-layer reliability failures across the end-to-end system.

Mercor

Applied AI Researcher and Software Engineer, Coding Agents

Remote

Sep 2025 - Mar 2026

- Built evaluation infrastructure for coding agents across production-style Python/Linux repositories using execution traces, behavioral tests, benchmark harnesses, CI automation, regression suites, and structured failure taxonomies.
- Reproduced software failures, debugged agent-generated code, and converted recurring failure modes into measurable tests and evaluation signals, improving solution acceptance by 20-25%.
- Expanded automated test coverage by ~40% through systematic debugging, profiling, code review, CI analysis, and regression testing while documenting findings for repeatable engineering decisions.

Walmart Global Technology

AI Engineering Intern

Bentonville, Arkansas

Jun 2025 - Aug 2025

- Built enterprise AI applications with Python/FastAPI, Next.js, LangChain/LangGraph, Milvus, embeddings, and vector retrieval across 5,000+ structured and unstructured documents, improving end-to-end task success by ~25%.
- Deployed services with Docker, Kubernetes, CI/CD, logging, and monitoring, supporting scalable internal workflows and production-quality operation across data, retrieval, and application layers.
- Evaluated task success, retrieval quality, latency, consistency, and failure modes; partnered with engineering and product teams to incorporate feedback and iterate on reliable user-facing workflows.

University of Miami Mathematical Finance Lab

Machine Learning Researcher

Coral Gables, Florida

Apr 2025 - Aug 2025

- Applied Transformers, HMMs, GARCH/EGARCH, Monte Carlo methods, and statistical learning to OHLCV, quote/trade, volatility, and derivatives data across quantitative research pipelines.
- Ran ~100 walk-forward and out-of-sample experiments and evaluated Sharpe, Sortino, CAGR, maximum drawdown, hit rate, transaction costs, and regime sensitivity; strongest models reached ~60% directional accuracy versus a ~52% baseline.
- Co-authored mathematical-finance research supported by the Beyond the Books Research Scholarship and presented through the University of Miami Research Gallery.

University of Miami Orthopedics Research Lab

Software Engineering Researcher

Coral Gables, Florida

Mar 2025 - May 2026

- Developed Kotlin Android software for BLE-connected EMG/Arduino systems with real-time sensor ingestion, local persistence, offline workflows, synchronization, and structured session logging for biomedical research.
- Partnered with biomedical researchers to translate evolving study requirements into maintainable software and repeatable workflows while communicating technical tradeoffs across software and hardware boundaries.
- Debugged device communication, state recovery, synchronization, and hardware-software failures through iterative testing and root-cause analysis, improving reliability of connected research workflows.

DUCAB

Quantitative Analyst & Data Science Intern

Dubai, United Arab Emirates

Jun 2024 - Aug 2024

- Analyzed copper and aluminum derivatives, pricing/reference data, hedging workflows, and trade-monitoring processes tied to LME markets and execution systems.
- Built Python, Excel VBA, API, and SAP-connected automations that reduced manual processing by ~60% and improved execution efficiency by ~20%.
- Implemented monitoring, risk, and stop-loss workflow improvements that reduced operational failures by ~50% while translating market and business constraints into reliable quantitative tooling.

AVAS Technology

Full-Stack Software Engineering Intern

Aug 2023 - Dec 2023

- Built and maintained customer-facing web features using PHP, Laravel, JavaScript, MariaDB, and Bootstrap, spanning backend routes, REST endpoints, database models, and responsive user interfaces.
- Refactored backend and data workflows, wrote SQL queries, and debugged frontend, server, and database issues while validating releases against functional requirements.
- Added unit tests, participated in code review, documented changes, and troubleshooted user-facing issues through iterative development and release cycles.

HONORS

- **Stamps Scholar:** Selected for the University of Miami's highly selective Stamps Scholarship based on academic achievement, leadership, service, and potential; part of the national Stamps Scholars community.
- **Presidential Scholarship:** University of Miami merit scholarship recognizing strong academic achievement and continued scholastic performance.
- **Foote Fellows Honors Program:** Selected for the University of Miami Foote Fellows Honors Program for high-achieving undergraduates pursuing an academically ambitious and interdisciplinary course of study.
- **Inventor's Ignite Award, USTAAR:** Awarded to Synaptix through the University of Miami USTAAR inventor program, supporting continued development of the neuromuscular-interface invention and university patent/IP process.
- **Beyond the Books Research Scholar:** Selected for a competitive faculty-mentored research scholarship supporting mathematical-finance research that was added to the University of Miami Research Gallery.
- **Walmart Jirafy Hackathon:** Placed Top 10 of 800+ entries for Jirafy, an AI-assisted JIRA workflow prototype that improved engineering productivity and reduced ticket-handling time in project evaluation.
- **Cane Angel People's Choice Award:** Recognized VibeLink with the Cane Angel People's Choice Award through the University of Miami entrepreneurship ecosystem, reflecting strong community support for the product.