

# Naren Ratnam

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## EDUCATION

### University of Florida

*Bachelor of Science in Statistics*

Gainesville, FL

*December 2025*

## EXPERIENCE

### Python AI Engineer

*VINNAR Services Inc*

January 2026 – Present

- Designed and built an Agentic RAG web application to automate technical candidate screening, reducing manual resume review time by approximately 40%
- Engineered Agentic workflows using the MCP, creating custom tools that allow LLMs to perform gap analysis and score candidates against strict technical requirements.
- Structured the codebase for cloud scalability, implementing a service-layer architecture compatible with Azure AI Search and Azure Document Intelligence migration.

### Software Engineering Intern

*Victorian Solutions Limited*

May 2024 – August 2024

- Engineered a new user authentication module using Node.js and JWT, which reduced unauthorized login attempts by 12% and streamlined the onboarding process for over 10,000 active users.
- Collaborated with a 4-person agile team to refactor legacy API endpoints, successfully decreasing average server response times by 18% and improving overall application stability.
- Developed and implemented a comprehensive testing suite using Jest and Cypress, increasing total code coverage by 20% and helping the team catch 10% more edge-case bugs prior to production releases.

### Undergraduate Student Researcher

*University of Florida*

January 2022 – April 2023

*Gainesville, FL*

- Area of Research: C1 Upgrading (Methanol to Olefins)
- Utilized Unix to manage experimental data, analyzing it to identify key correlations between chemical reactions to improve fuel quality

## PERSONAL PROJECTS

### DaanaRx | *TypeScript, Next.js, GraphQL, Apollo, Supabase, Redux*

November 2025 – Present

- Built a HIPAA-compliant web application for non-profit clinics to track and distribute donated prescription medications, implementing role-based access control with Row-Level Security for multi-tenant data isolation.
- Integrated RxNorm and FDA APIs for intelligent drug lookup via NDC barcode scanning, implementing caching and fallback patterns for reliable external API orchestration.
- Designed comprehensive GraphQL API with Apollo Server enabling complex inventory management workflows including check-in/check-out flows, QR code generation, and complete audit trail logging.

### Real-Time Stock Sentiment Analyzer | *Python, Flask, Tweepy, JavaScript* | [Link](#)

January 2025 – March 2025

- Constructed an automated data pipeline in Python that ingests and sanitizes real-time tweets for specified stock tickers using the Tweepy API.
- Implemented a sentiment analysis model using the NLTK library to score public opinion, exposing the aggregated data through a Flask REST API.
- Designed a dynamic front-end dashboard with Chart.js to visualize sentiment trends over time, providing users with an at-a-glance view of market perception.

## TECHNICAL SKILLS

**Languages:** JavaScript, Python, C/C++, Java, HTML, CSS, SQL, R

**AI & Data Engineering:** LangChain, RAG Architectures, ChromaDB, HuggingFace, Model Context Protocol (MCP)

**Frameworks:** FastAPI, React, NextJS, Node.js, Tailwind CSS, Flask, Material-UI, FastAPI, .NET

**Developer Tools:** Git, GitHub, Azure (AI Search Architecture), Swagger/OpenAPI ForgeRock, Ansible, Terraform, Docker, CI/CD, Linux, IDE, Shell Scripts, Tableau, PowerBI, Google Cloud Platform, VS Code