

Niharika Adari

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EDUCATION

University of South Florida

Tampa, FL

Bachelor of Science in Computer Science

December 2024

- USF GPA: 3.97/4.0 : *Summa Cum Laude*
- Vice President: Women in Computer Science Club (WiCSE)

EXPERIENCE

Citibank, N.A

Tampa, FL

Digital S/W Eng Intm Analyst, Officer of AML Systems

January 2025-Present

- Core contributor to the AWS cloud migration for Citi's global Sanctions Risk Management application, successfully migrating 10 out of 20 production-grade mission-critical microservices to AWS EKS with Aurora PostgreSQL by containerizing services, aligning Spring profiles, and configuring pod level networking and secrets management.
- Accomplished enterprise data-pipeline modernization by contributing to migration of 4,200+ database objects to Aurora PostgreSQL by rewriting incompatible PL/SQL logic, rebuilding ORM mappings, and validating data fidelity across systems, ensuring PostgreSQL/Oracle Compatibility
- Independently resolved 65% of all cloud-migration defects (15+) within a two-month period.
- Engineered a production-adopted outbox architecture producing sequence diagrams that identified failure points, defined fallback logic, and established a robust cloud-ready architecture.
- Developed and expanded automation test suite coverage across 389+ cases, unblocked CI failures, and strengthened pipeline reliability.

USF SEES Lab- Specification Mining

Tampa, FL

Research Assistant

January 2024- December 2024

- Developed software algorithms for automatic extraction of sequential patterns from extensive and complex execution traces of parallel/distributed systems, expediting pattern identification by 14x.
- Engineered a robust algorithm that enabled the identification of mined patterns from extracted system communication traces to provide insights to message flow specifications and system behavior.

USF Teacher Assistant- Data Structures

Tampa, FL

Student Assistant

August 2024-December 2024

- Provided 10 hours per week of academic support, assisting the professor with grading exams and offering individualized help to students, including answering questions and clarifying C++ concepts.

PROJECTS

AI-Powered Study Assistant: Desktop Application: Studykeet

- Developed a desktop application using Electron, React, and Chakra UI, enabling users to summarize or query multimedia content, or apply the Feynman Technique with AI-powered feedback.
- Implemented a FastAPI backend integrated with LLMs and Whisper for real-time analysis of user explanations, providing feedback on content coverage, accuracy, and study material comprehension.

HONORS AND AWARDS

- **Dean's List:** Earn semester GPA of 3.90 while taking 12 credits, for 4 semesters Fall 2021- Spring 2023
- **USF Green & Gold Presidential Award:** Highest merit award based on academic excellence throughout highschool

ADDITIONAL

Technical Skills: Python, Java, C/C++, SQL, JavaScript, HTML/CSS, R; AWS (EKS, Aurora PostgreSQL), Docker, Kubernetes, OpenShift; PostgreSQL, Hadoop; Spring Boot, React, Flask, Electron; NumPy, pandas, scikit-learn, TensorFlow, PyTorch, Matplotlib, Seaborn, Plotly; Selenium, Cucumber BDD, BeautifulSoup4