

STUTI GOYAL

goyalstuti1610@gmail.com | (803)856-2301 | github.com/Stuti10 | linkedin.com/in/stuti-goyal10

EDUCATION

University of South Florida (USF) | B.S in Computer Science | 3.83/4.0

Graduation date: December 2026

EXPERIENCE

Software Engineering Intern | Morgan Stanley, New York

May 2026- August 2026

- Architected a human-in-the-loop **agentic AI full-stack application** with three specialized agents to automate Jira ticket creation and resolution, achieving **75% first-pass accuracy** and adoption by **50+ developers**
- Reduced average Jira ticket creation time by **83–88%**, from 30–40 minutes to approximately **5 minutes per ticket**
- Developed the application using **Streamlit** for the frontend and **Python/FastAPI, LangGraph, and MCP** for the backend, integrating internal systems, benchmarking LLM performance in multiple models, and enforcing **security guardrails** for restricted data
- Iterated on features in an **Agile development** environment through regular user feedback, testing, and demos, while contributing to a large-scale portfolio management and trading codebase using C++ and Linux within Sales & Trading Technology

Research Assistant | USF College of AI, Computing and Cybersecurity

May 2025- April 2026

Toward Scalable, Rubric-Aligned, and Automated Grading Using LLMs

- Built a Canvas-integrated AI Grader using Google Gemini 2.5 Pro that automatically retrieves submissions, applies instructor-defined rubrics, and returns rubric-aligned scores and feedback at scale
- Benchmarked **four LLM grading configurations** across grading style and strictness, with lenient multi-pass methods achieving **84% agreement** with instructor grades (ICC 0.84) versus 57–64% for strict configurations
- Validated on 93+ real student submissions, demonstrating that iterative multi-pass grading closely mirrors human scoring while improving grading consistency and reducing TA workload

Research Assistant | USF RARE LAB

January 2026- June 2026

Misty: An LLM-Driven Recipe Recommender Robot

- Contributed to development of a recipe recommendation system on a **Misty** robot using Google Gemini API and **Raspberry Pi, WebSocket** communications, delivering voice, gesture, and UI interactions in under 3 seconds
- Developed a LLM pipeline for ingredient extraction, dietary preference handling, and recipe refinement, achieving **92% ingredient detection accuracy** and **4.6/5 human clarity rating**, and conducted HRI experiments

Teaching Assistant | USF Computer Science Department

August 2025 – December 2025

- Facilitated weekly office hours for **180+ students**, guiding them through C programming, **Unix development**, and **debugging** while ensuring timely feedback and academic integrity
- Strengthened student understanding of core CS topics including pointers, dynamic memory allocation, and linked lists through guided examples and one-on-one mentoring

PROJECTS

Risk-Guided Secure Code Review Agent

January 2026 - May 2026

- Built a diff-aware security agent using Python and HuggingFace LLMs, integrated with GitHub Actions to automatically review only changed PR code across categories: injection, misconfiguration, and error handling
- Designed an **agentic adversarial workflow** with specialized prosecutor, defender, and judge agents to debate findings and output **confidence-scored**, severity-ranked reports with fewer false positives

AI Course Companion

May 2025- October 2025

- Developed an AI course assistant using Python, JavaScript, and the Canvas REST API to automatically retrieve and process course materials, reducing students' daily course-material **retrieval time by 10%**
- Enhanced user interface and integrated feedback workflows, enabling deployment across **25+ Computer Science courses** at USF in Canvas and improving student productivity by ~30%

LEADERSHIP

President | Engineering Council USF

January 2026 - May 2026

- Lead coordination across 40+ STEM organizations and collaborate with university leadership and industry partners on engineering-wide initiatives and represented USF in National Conferences

SKILLS

Languages: Python, C++, C, Java, JavaScript, SQL

AI/ML: LangGraph, Hugging Face, Gemini API, Claude Code, Codex

Frameworks & Libraries: FastAPI, React, Streamlit, Pandas, NumPy, NetworkX

Tools & Technologies: Git, GitHub Actions, Linux, Google Cloud, Kubernetes, Jira, Bitbucket, REST APIs, WebSockets