

Utsav Shrestha

shresthaabsab345@gmail.com | 256.403.9495 | linkedin.com/in/ushrestha8 | github.com/ushrestha8

EDUCATION

Jacksonville State University

B.S. Computer Science; Minor: Mathematics. International House Scholarship (Full Tuition) |
Gamecock Achievement Merit Scholarship (\$3,000) | ICPC Southeast USA Regional 2025:
Georgia Tech Division 2 (Bronze Medal) | IEEE SoutheastCon 2026: 1st Place Software
Competition (Open Team), 3rd Place Website Design, 2nd Place T-Shirt Design. GPA:
3.95/4.0.

Jacksonville, AL
Expected May 2027

Relevant Coursework: Artificial Intelligence, Software Engineering, Data Structures & Algorithms, Probability & Statistics

PROJECTS

Pharmaceutical Document Q&A RAG Pipeline

- Built an end-to-end RAG system using FAISS vector search and an open-source LLM to answer questions over pharmaceutical documents
- Implemented custom chunking and embedding strategies to improve retrieval accuracy

Sahara | Culturally Grounded Support Application

- Built a mental health platform at the Nepal-US hackathon with dual intake paths for families and individuals in collectivist cultures
- Developed the frontend using React 19, TypeScript, and Tailwind v4, and integrated Google Gemini 2.0 Flash for AI-powered conversations

iAdvisor | AI-Powered Academic Decision Support System

- Engineered a full-stack predictive analytics platform using React and Flask to identify at-risk students by analyzing LMS engagement metrics
- Developed a Random Forest machine learning pipeline to categorize risk levels and isolate specific academic performance gaps
- Integrated the GPT-4o API to dynamically generate personalized intervention emails, streamlining advisor workflows

IEEE SoutheastCon Hardware Competition

- Collaborated on a robotics team to synchronize robot-drone interactions for autonomous challenge tasks, coordinating hardware integration and software debugging under strict competition deadlines

Dragon Therapy | Gamified Rehabilitation Application

- Designed a scalable web application that gamifies physical rehabilitation using motion-based challenges
- Built a data pipeline to track user accuracy and reaction time, visualizing analytics with Chart.js

EXPERIENCE

Resident Assistant, Crow Hall

Jacksonville State University

Jul 2025 – Present

Jacksonville, AL

- Oversee 50+ first-year residents, providing 24/7 on-call emergency support and conflict resolution
- Design floor newsletters and coordinate programming to foster community and academic success

Peer Mentor (Remote)

CodePath

Aug 2025 – Dec 2025

- Mentored a cohort of students in cybersecurity and Web 101, troubleshooting code and reinforcing key concepts
- Facilitated interactive learning environments, fostering peer-to-peer collaboration

Digital Marketing Officer

Skilltootr (Remote)

Feb 2023 – Jul 2023

- Designed 24+ targeted digital marketing campaigns, increasing engagement by 80%
- Analyzed campaign metrics and collaborated cross-functionally to optimize CRM-based content strategies

ACTIVITIES & LEADERSHIP

Jax State Cricket Club

Vice President

Aug 2024 – May 2025

- Organized practices and tournaments; managed club budgets and sponsorships

Nepalese Student Organization

VP of Events & Activities

Aug 2023 – May 2025

- Coordinated multicultural events with 100+ attendees; established mentorship programs for incoming Nepalese students

SKILLS

Technical: Python, C++, Java, SQL, React, Flask, Machine Learning (scikit-learn), Git, Tableau, Technical Writing

Languages: English (Fluent), Hindi (Fluent), Nepali (Native)