

AROSSA ADHIKARY

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github.com/arossaadhikary | arossaadhikary.github.io/portfolio/ (QR Code)



EDUCATION

B.S. Computer Science, Minor: Electrical, *University of Florida Honors Program, Gainesville, Florida*
Certifications: CompTIA Security+ (Expected: May 2025)

May 2027

PROFESSIONAL EXPERIENCE

Incoming Software Engineering Intern: General Electric Appliances

Winter 2025

Research Assistant: UF Technology for Occupational Performance Lab

Aug 2024 - Present

- Integrated data from **Qualisys & Visual3D** to develop **Python** script to automate biomechanical calculations for gait analysis with **pandas/numpy/scipy** improving data accuracy processing speed by 80%
- Performed data analysis using **Visual3D & Theia** by identifying gait cycles & adding markers identifying movement
- Leveraged an AI-based markerless motion capture system to collect data on walker biomechanics (ie: joint positioning)

Software Development Lead: *Engineering Without Borders (EWB)*

Apr 2024 - Present

- Lead a 10-person team to implement responsive design principles via self-designed **Figma** wireframe
- Improved club online presence & provided a centralized platform of communication with **React & version control with Git**
- Established user authentication with **Firebase** to inform 80+ about their application status & to create a member portal

Social Director: *Women in Computer Science*

Apr 2024 - Present

- Planned & budgeted 3x/biweekly community events with executive board & company sponsors for 200+ members
- Supervised budget allocation of \$1,000 for end-of-year gala, skillfully collaborating with local venues & utilizing event planning tools to design a memorable, cost-effective event catering to 100+ guests

Google Cybersecurity Certification Program: *Women in Cybersecurity*

Apr 2024 - Present

- Learned to apply **Linux/SQL** for cybersecurity tasks, while automating process with **Python** to enhance detection & response capabilities using tools like **Suricata & Splunk**
- Gained hands-on-experience with network security, applying frameworks like **NIST CSF** & analyzing packet data using **Wireshark** to strengthen threat detection & responses

Frontend Developer: *WiNGHacks Hackathon, Women in Computer Science*

Dec 2023 - Apr 2024

- Selected as the sole 1st year committee member to design website for UF's 1st women & nonbinary focused hackathon
- Enhanced user interactivity in **React** by optimizing the design functionality of FAQ/sponsorship/workshop schedule pages, improving UX & engagement

PROJECTS

PageTurners: The Post-Book Connector | (Python, React Native, Expo Go, Flask)

Jul 2024 - Aug 2024

- Crafted algorithm for full-stack mobile application to deliver personalized book recommendations by implementing similarity scores using **Term Frequency-Inverse Document Frequency** & Cosine Similarity techniques
- Custom-built a **Flask API** to provide book recommendations & enable fuzzy matching for accurate book identification

Earthquakes Data Visualizations from CORGIS Database | (Python)

Dec 2023

- Converted 6000+ rows of earthquake data into pkl files, utilizing **numpy/matplotlib/pandas** to analyze the impact of earthquake magnitude & depth on location, local communities, & damage reports
- Used **folium** libraries to create an interactive web map visualizing earthquake locations based on longitude & latitude for better geographic insights

AnimalCare - 2nd Place - Designathon with Dream Team Engineering | (Unity, C#, OpenAI, GPT 3.5)

Oct 2023

- Designed a virtual waiting room RPG-style video game to help young children visiting the hospital learn about intimidating medical procedures through interactive tile mapping & educational chatbots
- Leveraged **GPT-3.5 Turbo** to curate chatbot interactions, developing the game within 24 hours to ease anxiety & create an engaging learning experience for children

TECHNICAL SKILLS

Languages: Python, Javascript, C++ | **Full-Stack Technologies:** React.js, Node.js, HTML/CSS, Firebase
Tools/Technologies: Figma, Adobe Photoshop, numpy, matplotlib, folium, pandas