AROSSA ADHIKARY

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EDUCATION

B.S. Computer Science, Minor: Spanish, *University of Florida (UF) Honors Program*   **May 2027**
Certifications: CompTIA Security+, AWS Cloud Practitioner (Expected Sep 2025)

PROFESSIONAL EXPERIENCE

Wireless & Optical Networking Intern: *Walt Disney World, Telecom Operations*   **May 2025 - Present**
- Automating **IoT** device configuration & deployment using Disney's automation platform, TRON, & **ArcGIS**, enabling scalable rollout of sensors & improving internal equipment tracking (e.g. pest control, wheelchairs)
- Spearheading migration of 1000+ Smartsheet assets to Airtable via **Python** scripting & **Smartsheet/Airtable AP**I, streamlining workflows for Telecom & eliminating costly effort
- Engineering the 1st scalable**,** centralized **SharePoint**-based backup system using **Power Automate**, reducing platform costs & enabling sustainable, department-wide adoption
- Designing **Splunk IoT** dashboards for occupancy & pest control data via **The Things Network**, improving workflows, promoting guest experience through sensor-driven intelligence & projecting to save Pest Control department $72k/yrly
- Performed **RF survey**s & **WiFi spectrum analysis**, optimizing coverage by identifying dead zones, supporting access point installations, & informing FCC frequency renewals

SmartHQ Software Engineering Intern: *General Electric Appliances*   **Jan 2025 - May 2025**
- Shaped UI/UX for new MySubscriptions SmartHQ Feature via **Flutter, Kotlin, & Dart**, leveraging **Git for version control** in an **Agile team environment** to expand & streamline app's subscription management capabilities
- Independently developed & pitched a **Figma** proof of value to leadership for new SmartHQ features, driving exploration of advanced SmartHQ appliance integrations beyond core internship responsibilities
- Programmed motor & sensor drivers in **embedded C** & designed **finite-state machine** based control logic, achieving 100% test coverage with **CppUTest**, securing a 1st place finish in a multi-round robotics competition

PROJECTS

Clarifina: 4th Google, 3rd Vanguard - ShellHacks Hackathon | **Sep 2024**
(AWS, Firebase, Textract, OpenAI, TypeScript, Node.js)
- Developed a platform to simplify complex financial documents with **AWS S3**, **Textract**, & **OpenAI's GPT**, generating personalized summaries & recommendations based on user demographics
- Engineered a serverless backend with **AWS Lambda & API Gateway** for document processing, & integrated **Firebase Auth & Firestore** for user authentication & session management
- Led frontend development in **Typescript**, designed an intuitive UI with PDF annotation & AI-powered term definitions to enhance usability

SkillSwap: Connecting UF Students with Campus Projects | (MERN, Socket.io, Figma)   **Aug 2024 - Dec 2024**
- Designed & built a responsive web UI in **Figma & React.js,** enabling UF students, faculty, & organizations to easily post & discover hands-on learning opportunities
- Developed a full-stack **MERN stack** application **(Mongo DB, Express.js, React.js, Node.js)** to enable organizations to post service needs & for students to respond with solutions
- Implemented real-time chat with **Socket.io**, supporting seamless peer-to-peer communication & project

PageTurners: The Book Recommender | (Python, React Native, Expo Go, Flask)   **Jul 2024 - Aug 2024**
- Crafted a personalized book recommendation algorithm using **TF-IDF vectorization** & **Cosine Similarity**, leveraging **vectors** (feature time representation) & **hash maps** (term/frequencies, user/book lookup) to improve algorithm efficiency
- Led design & development of intuitive mobile interface **(React Native, Flask, Expo Go)** with real-time **Goodreads API** integration, dynamic feedback, & interactive recommendation visualization for an engaging user experience

LEADERSHIP

Career Development Director, Social Director: *Women in Computer Science* & Engineering   **Aug 2024 - Present**
- Leading organization's career development program, delivering tailored resume workshops & mentoring 200+ members via self-created internship preparation, application materials, & networking strategies
- Organizing exploratory tech workshops (i.e. cloud, cybersecurity, blockchain) to broaden member exposure to fields beyond software engineering, expanding awareness of diverse career paths
- Planning inclusive events bridging technical & social engagement, fostering a sense of community in computer science

TECHNICAL SKILLS

Languages: Python, Javascript, C++, Flutter, Dart | **Full-Stack & Mobile:** React.js, React Native, Node.js, HTML/CSS
Tools/Design: Figma, Adobe Photoshop, Agile/Scrum, Git/Github | **Testing & Systems:** CppUTest, TDD, IoT sensor integration, Linux
Data Analytics: Numpy, pandas, matplotlib, Splunk