

# AROSSA ADHIKARY

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## EDUCATION

**B.S. Computer Science, Minor: Electrical Engineering, 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, **Typescript, Python & 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 API**, leveraging **Postman** for endpoint testing/debugging streamlining Telecom workflows & 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 surveys & 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, Typescript, 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