Alekhya Gollamudi

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EDUCATION

University of Florida (UF), Gainesville   **Aug 2021-Dec 2022**
Master of Science in Computer Science
Coursework: Software Engineering, Distributed Operating System Principles, Analysis of Algorithms   **CGPA:3.77/4**

Anurag Group of Institutions (AGI), Hyderabad   **Aug 2017- Jun 2021**
Bachelor's in computer science engineering
Coursework: Linear Algebra and Calculus, Data Structures, Machine Learning, Big Data Analytics   **CGPA: 9.55/10**

TECHNICAL SKILLS

Programming Languages: C, C++, JAVA, Python, F#, GO
Web Technologies: HTML, CSS, PHP, XML, JavaScript, JSP, React, Bootstrap
Data Management: Oracle, MySQL, MongoDB
Tools, Technologies, and OS: Android Studio, ML, Google Cloud, Artificial Intelligence, Flask, Weka, Unix, Windows, Heroku, Git, Postman

EXPERIENCE

QUALCOMM, San Diego   **May 2022 -Aug 2022**
Embedded Software Engineering Intern
- Developed an automated **Python script** that activates a virtual environment to generate and download report file in **excel** format.
- Implemented a digital logic that retrieves the report file, combines all the inputs, and tries to establish a mapping that satisfies all combinations.
- Implemented an algorithm that generates a **JSON** file for each hardware id.
- Script **automation** improved efficiency (up to 90%) by saving manual efforts and generating mapping in minutes.

PROJECTS

Bitcoin Mining Using F# (F#, Cryptocurrency)
- Used the AKKA actor model and F# to mine bitcoin on multi-core systems with one master and the other acting as worker systems, remote actor references were used for remote communication.
- SHA-256 was used as the hashing algorithm, and the Round Robin group was used for worker system allocation.

Gator-News (React, GOLANG, MongoDB, Heroku, Postman, GitHub Actions)
- Developed a login and registration system using **JWT** and performed password encryption using **bcrypt.**
- Built a powerful and complete **REST APIs** using **Golang** and performed the API testing on **postman**.
- Designed and configured a database to perform **CRUD** operations using **MongoDB** hosted on **AWS**.
- Deployed the backend APIs using **HEROKU** and leveraged them to publish website using **Netlify** and **GitHub pages**.

Twitter Application Simulator (F#, Web-sockets, HTML, CSS, JavaScript, Bootstrap)
- Implemented a twitter-like engine with the following functionality: Register an account, send tweets, subscribe to user's tweets, and re-tweets. Implemented a tester/simulator to simulate as many users as possible.
- Simulated periods of live connection and disconnection for users and created a distribution on the number of subscribers.