

Syed Raafay Mohiuddin

Profiles: [LinkedIn](#) [Github](#)

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EDUCATION

- Birla Institute of Technology and Sciences (BITS) Pilani** Hyderabad, India
• *BE - Electronics and Communication Engineering (ECE) & MSc - Economics.* CGPA-7.85 2019 - 2024

EXPERIENCE

- Kanerika Inc** Hyderabad, India
• *Software Engineering Intern (GenAI)* Jan 2024 - Present
 - Spearheaded the Development of a Holistic Product Analysis Platform Integrating Generative AI for E-Commerce
 - Technologies: - **Python, Flask, Pinecone, Angular, MongoDB, OpenAI, and Gemini**
- Amazon** Bangalore, India
• *Software Development Engineering (Intern)* July 2023 - Dec 2023
 - Optimized Kinesis data streams with **dynamic partitioning**, significantly reducing Athena querying costs and enhancing data delivery efficiency.
 - Engineered a caching mechanism to streamline data reuse across multiple hosts, driving down AWS S3 expenses by **\$40 per day**.
 - Revamped the manual mapping tool by integrating S3 data, achieving a **200%** increase in pop-up alert triggers for the mapper at Amazon.
 - Technologies : - **Java, SpringBoot, Typescript, SQL** and **AWS tools**
- Pilani Athmanirbhar Resource Center (PARC)** Rajasthan, India
• *Web development & Spatial Mapping (Intern)* May 2021 - Aug 2021
 - Enhanced accessibility to satellite imagery by incorporating essential landmarks like schools and hospitals, improving user navigation and decision-making.
 - Technologies : - **Java, SpringBoot, HTML, CSS, JavaScript, GIS** and **Python**

PROJECTS

- Client-Server Application Framework** **Github Link**
• *Technologies: C, Linux, Operating System* Jan 2023 - May 2023
 - Engineered a client-server application in POSIX-compliant C, implementing **interprocess communication and shared memory**.
 - Utilized **multithreading and synchronization** to handle concurrent client operations, ensuring thread safety, and incorporated an interactive client interface and server-side logging.
- Customer Churn Prediction** **Github Link**
• *Technologies: Python, Numpy, Pandas, Matplotlib* Nov 2022 - Jan 2023
 - Developed a predictive model with an **80% accuracy** in forecasting churn rates within the Teico Industry.
 - Employed Random Forest Classifier, GridSearchCV, Support Vector Machines, and Decision Trees to predict customer retention based on service subscriptions, account specifics, and demographic information.
- Grocery Store Website** **Github Link**
• *Technologies: Java, SpringBoot, MongoDB* Sep 2021 - Feb 2022
 - Engineered an **E-commerce Website** for grocery shopping, featuring intuitive cart-based functionality to streamline transactions and enhance user experience.
 - Implemented essential features necessary for a grocery shopping website, ensuring efficient product search and payment

SKILLS

- Technologies:** C++, Java, SpringBoot, Python, C, SQL, JavaScript, TypeScript, Git, AWS, AI/ML, Flask, Pinecone
- Courses:** Data Structures and Algorithms, Operating Systems, Object Oriented Programming, Database Management Systems, Computer Programming, Cryptography

PUBLICATION

- A Novel Technique to Parameterize Congestion Control in 6TiSCH IIoT Networks:**
 - Developed a pioneering RPL routing protocol for congestion reduction and effective control in 6TiSCH Networks.
 - Achieved a notable **20%** reduction in packet swaps and a **15%** increase in network throughput
 - Presented research at **IEEE Globecom Conference 2023** and published paper in **IEEE Xplore**.
 - Technologies:** C++, Contiki Simulator **Paper Link**

ACHIEVEMENTS

- Google Kick Start** - Rank 2920 - Certificate
- Programming Profiles Links** - Leetcode Codeforces Codechef
- Postman Student API Developer Expert** - Certificate

VOLUNTEER EXPERIENCE

- National Service Scheme (NSS)** Hyderabad, India
• *Core Committee Member/ Volunteer* Feb 2020 - May 2021 **Certificate**
 - Organized various community service activities, including blood donation drives, health camps.
 - Conducted career guidance & skill development training classes for government school students of class 9 & 10.