Gowlapalli Rohit

Linkedin: Rohit Gowlapalli
Github: ROHIT32767

Email: rohitgowlapalli01@gmail.com
Mobile: +917842265535

EDUCATION

International Institute of Information Technology, Hyderabad — Telangana, India
*Bachelor of Technology - Computer Science Engineering; **CGPA: 9.35*** — *Nov 2021 - Present*

Courses: *Operating Systems & Networks, Data Structures & Algorithms, Software Engineering, Design & Analysis of Software Systems, Machine Learning, Statistical Methods in AI, Data and Applications, Computer Systems Organisation, Algorithm Analysis and Design, Distributed Systems, Natural Language Processing, Discrete Mathematics, Computer Programming, Data Analytics, Linear Algebra*

SKILLS SUMMARY

- **Languages:** C, C++, Python , JavaScript, SQL, Bash, JAVA
- **Frameworks:** ReactJS, NodeJS, GraphQL, Typescript, React-Native, Angular, Flutter, Firebase

EXPERIENCE

Goldman Sachs — Hyderabad, India
Summer Analyst Intern — *May 2024 - July 2024*

- **LLM-Powered Workflow Automation Tool**: Developed an automated workflow generation tool using State-of-the-Art LLMs like GPT, Mistral, Gemini, and Llama.
- **Prompt Optimization**: Improved prompts for a low-code automation copilot to resolve alerts efficiently.

Center for Security, Theory and Algorithmic Research — Hyderabad, India
Undergraduate Researcher — *May 2023 - April 2024*

- **Searchable Encryption**: Worked on Blockchain-based Security Network protocols as part of my Honours project under Prof. Ashok Kumar Das. Tested the protocols using scyther, a tool for modeling security properties of the protocols

PROJECTS

- **InstaCommerce (ReactJS, NodeJS, MongoDB , Stripe)**: Implemented a microservices-based architecture for an e-commerce application, integrating user management, product handling, orders, payments, carts, shipping, notifications, reviews, and seller operations. [Source Code] (Mar 2024)

- **Books (Java, OOPS, Design & Architectural Patterns)**: Refactored and optimized a book management system by addressing code and design smells. Integrated design patterns to improve scalability & maintainability. Added new features, including advanced search & user role management, enhancing system performance. [Source Code] (Jan 2024)

- **Airdrop Insurance (Flutter, Firebase, Solidity)**: Developed a cross-platform application for social safety net enabling citizen powered personal and crop insurance with voucher system and CBDC integration. Followed Agile methodology for implementing the UI in Flutter and and building the backend with Firebase and deployed the Application on Google Play Console. [Source Code] (April 2023)

- **Greddit (MongoDB, ExpressJS, ReactJS, NodeJS, Docker)**: Built a Social Media Platform similar to Reddit which allows users to create and join subgreddits. Users can post, comment, vote, and save content in subgreddits. Moderators can handle members, reports, bans, and growth. [Source Code] (Feb 2023)

- **IPL Data Management CLI (RDBMS, MySQL, Python3)**: Developed a CLI-based database application that manages and shows IPL data. Users can access information about players, matches, runs, and wickets. [Source Code] (Sep 2022)

- **C Shell (C , Linux System calls)**: Developed a bash-like command interpreter, with features such as process management, piping and redirection, and built-in & system commands. The shell can run commands in the foreground or background, handle signals, and use pipes or files for inter-process communication. [Source Code] (Aug 2022)

- **Extended XV6 (C , Scheduling , Operating System)**: Enhanced the original xv6 OS by forking and modifying its source code. Added new system calls and implemented different scheduling algorithms (priority-based, multi-level feedback queue, and first-come-first-serve) to boost performance. [Source Code] (Nov 2022)

HONORS AND AWARDS

- Ranked 1116th out of 141,000 in JEE Advanced 2021 and 498th out of 950,000 in JEE Mains 2021
- Awarded Dean's List 1, the highest academic honor, for being in the top 5% of the batch across semesters
- Recipient of Micron's URAM Scholarship, awarded to 60 top Undergraduate Engineering students
- 2-time recipient of the KVPY Fellowship with AIR 701 in the SA Stream (2019) & AIR 474 in the SX Stream (2020)
- Rated **Specialist** on Codeforces with a peak rating of 1453 [**BlueBird1**]
- Rated **Knight** on LeetCode with a peak rating of 1942 [**Kalki2898AD**]
- Rated **3 Star** on Codechef with a peak rating of 1734 [**rohit32767**]

POSITION OF RESPONSIBILITY

Head Teaching Assistant — Probability & Statistics, Intro to Information Security
Responsible for teaching, conducting tutorials, and grading exams. — *July 2023 - Mar 2024*