

GOWLAPALLI ROHIT

Undergraduate Researcher, CSTAR, IIITH

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in Rohit Gowlapalli

Homepage

EDUCATION

• International Institute of Information Technology, Hyderabad

B. Tech in Computer Science and Engineering

2021 – 2025

CGPA: 9.24

• Narayana Junior College

Higher Secondary Education

2019-2021

Grade : 988/1000

• Narayana Concept School

Secondary Education

2014-2019

Grade : 9.8/10

ACHIEVEMENTS

• Dean's List Awardee for excellence in academic performance. (2021-22)

• AIR 1116 in JEE Advanced (2021)

• Achieved AIR 498 in JEE Mains (2021)

• Secured State Rank of 84 in TS EAMCET (2021)

• Qualified to Regional Mathematics Olympiad (2017,2018,2019)

• Max rating of 1265 at Codeforces (2023)

★ Two-time Recipient of KVPY Fellowship with AIR 701 in SA stream and AIR 474 in SX stream (2019 and 2020)

SKILLS

Proficient: GNU/Linux, Python, C , C++ , Bash , Git, JavaScript , Competitive Programming , Java

Familiar: MongoDB, ReactJS, NodeJS , Express , React-Native , Flutter , FireBase , TypeScript , MySQL , Scyther , Arduino , LaTeX, Markdown

POSITION OF RESPONSIBILITY

TA | Probability and Statistics

TA | Introduction to Information Security

TA | Digital Signal Analysis

★ Responsible for teaching, conducting tutorials, making and grading assignments and exams.

COURSES

- Design and Analysis of Software Systems
- Data Structures and Algorithms
- Operating Systems and Networks

EXPERIENCE

Undergraduate Researcher | CSTAR

(May 2023 - Present)

- Working on Blockchain-based Security Network protocols with Prof Ashok Kumar Das.
- Developing and testing the protocols using scyther, a tool for modeling and verifying security properties of the protocols.

Fullstack Developer | Airdrop-Insurance

(Jan 2023-April 2023)

- Developed a cross-platform application for social safety net enabling citizen powered personal and crop insurance with voucher system, CBDC integration, and translation as part of DASS Curriculum
- Followed Agile methodology for implementing the UI in **Flutter** and building the backend with **Firestore**, and deployed the Application on **Google Play console**.
- Leveraged **Superfluid**, a blockchain platform for value streams, to automate transactions for premiums, claims, and bids among customers, admins, and speculators

PROJECTS

• **Greddit | MongoDB, ExpressJS, ReactJS, NodeJS , Docker**

Built a Social Media Platform similar to Reddit which allows users to create and join subreddits. Users can post, comment, vote, and save content in subreddits. Moderators can handle members, reports, bans, and growth. Users can edit their profile and settings.

• **Air Quality Monitoring System | MERN Stack, Arduino**

Developed a MERN stack based dashboard that displayed graphs of air pollution data from an OM2M enabled node with various sensors.

• **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.

• **Advanced 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.

• **Enhanced 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.

• **Clash of Clans | Python3 , OOPS**

Developed a terminal-game using NumPy and Colorama libraries following OOP standards.

• **MultiThreading and Network Routing | C , C++**

Wrote a collection of programs that demonstrate the use of multi-threading and Dijkstra's algorithm for various real-life scenarios.