

# ESWARA ROHAN

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## EDUCATION

### International Institute of Information Technology — Hyderabad

B.Tech in Electronics and Communication Engineering

*Courses:* Computer Programming, Data Structures & Algorithms, Operating Systems, Data Systems, Statistical Methods in AI, Processor Architecture, Communications & controls in IoT

## EXPERIENCE

### Kshema General Insurance Limited — *Software Developer* | *React, Angular, Scrum*

- Built a kiosk application with features for raising a claim, claim status tracking, general enquiries, policy purchases and grievance submission using React in the RAD model within 1 month, enhancing user experience and service efficiency.
- Developed the iAgri portal, allowing farmers to apply for insurance, access and manage their account details using Angular within the Scrum model to reduce development time by nearly 40%
- Automated website performance monitoring by integrating New Relic, enhancing frontend with user interaction tracking and breadcrumb implementation, and establishing a robust logging system in the backend.

### AIISH — *Full Stack Developer* | *React, Flask, Agile*

- Applied Rapid App Development principles to develop a CRUD style web application from scratch in 15 days.
- Practiced Agile methodology for further development, resolving bugs and improving efficiency.
- Features role-based functionalities for Admin, Patient & Examiner for an ML-based stuttering detection system.
- Managed server side routing with Flask, integrated RESTful APIs along with a ReactJS based UI & MongoDB storage.

## PROJECTS

### Graph Neural Networks | *Python, Torch*

- Examined the expressive power of GIN, GCN, and GRAPHSAGE graph neural network variants in capturing various graph structures over 5 datasets like MUTAG, Proteins.
- Analyzed testing accuracy, training accuracy, and average loss to assess the efficiency of each variant in a detailed study of over 300 epochs.

### Relational Database Management System | *C++, DBMS*

- Devised an optimized low-level design of a RDBMS, supporting operations such as loading, listing and printing tables.
- Implemented External Merge Sort, Block Nested Join, and Group By operations for efficient data processing.
- Executed insertion, deletion, and range manipulations on a B+ Tree, a crucial data structure for multilevel indexing.

### Bounce Arcade Game | *Python, OOPS*

- Developed a terminal-based game in Python showcasing an environment with 10+ interactive elements, including boosts, multiple levels, falling and exploding bricks enhancing user engagement.
- Engineered power-up system, allowing for 8 unique upgrades, each lasting 10 seconds, optimizing game-play strategy.

### Interactive C Shell | *C, Linux, System Calls*

- Crafted a custom shell program in C, seamlessly integrating Unix system calls to implement essential commands.
- Handles process management, directory management, I/O redirection, piping, and signal handling using system calls, and the ability to run commands as foreground and background.

## SKILLS

Languages	C, C++, Python, JavaScript, TypeScript, SQL, HTML, CSS
Frameworks	React, Angular, Ionic, Node.js, Flask, jQuery, Bootstrap, Material UI
Miscellaneous	GNU/Linux, REST API, MySQL, MongoDB, Git

## ACHIEVEMENTS AND POSITIONS HELD

- Achieved proficiency by solving an extensive repertoire of over 550 problems on LeetCode, GFG, and CodeChef.
- Institute Merit List Awardee for achieving a position in the top 10% in the academic years 2022 and 2023.
- Secured AIR 3941 in JEE Advanced out of 2,24,000 candidates and 99.73 Perc in JEE Mains out of 11,50,000 aspirants.
- Worked as a Teaching Assistant (TA) for Science-I and Science-II courses, providing mentorship for 250+ students.
- Led the IIITH cricket team as Vice Captain, actively contributing strategic insights.