

ESWARA ROHAN

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EDUCATION

International Institute of Information Technology — Hyderabad

2020-2024

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 — Software Developer | React, Angular, Scrum

June 2024- Jan 2025

- Led the development of a kiosk application using React within 1 month, integrating features such as general inquiries, policy purchases, claim status tracking, and grievance submission, enhancing user experience through the RAD model.
- Spearheaded the development of the Kshema Finder application using React and Reactstrap, delivering state-wise policy analytics with detailed insights on policy counts and premiums, improving data accessibility and user engagement.
- Developed the iAgri portal, enabling farmers to apply for insurance and manage their account details using Angular within the Scrum model to reduce development time by nearly 40%.

AIISH — Full Stack Developer Intern | React, Flask, Agile

Jan 2023-May 2023

- 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 GRAPH-SAGE 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, Java, JavaScript, TypeScript, SQL, HTML, CSS

Web Dev: Angular, React, Redux, Ionic, jQuery, Material UI, Bootstrap, Spring Boot, Node.js, Express.js, Flask

Other: MySQL, MongoDB, Git, Linux, REST API, PyTorch, Scikit-learn

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 course, providing mentorship for 250+ students.