Patnala Shyam Ram

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EDUCATION

IIT Hyderabad   **July 2020 - July 2024**
Bachelor of Technology in Chemical Engineering   *CGPA: 7.25*
Academic Coursework: Data Structures and Algorithms(C++), OOPS, Operating Systems, Database Management Systems, Computer Network

EXPERIENCE

Red Hibbert Group LLC   **Aug 2024 - Present**
Full Stack Developer Intern
- Designed a no-code preference center using React, Express and Salesforce Marketing Cloud Data Extensions, transformed it into a marketable product that enables custom preference centers and campaign management.
- Redesigned existing dashboards to display Salesforce Marketing Cloud data with OAuth 2.0 authentication ensuring seamless integration within SFMC.
- Replaced SOAP API integrations with RESTful APIs for existing projects, while refactoring and optimizing the existing backend code to enhance performance and reliability.

PROJECTS

AI Writing Assistant | *React, Privy, OpenAI API, Express*
- Developed an AI-powered writing assistant with grammar correction and rephrasing features, utilizing React for the frontend, Express for the backend, and OpenAI's API for language processing.
- Implemented secure user authentication and integrated Ethereum wallet functionality using Privy for security.

Job Portal App | *MERN*
- Designed and developed a multi-user application for users to search and post jobs.
- Utilized MongoDB as the database to store and retrieve data, developed the server-side using Express.js, implemented the responsive user interface using React.js .
- Implemented authentication and authorization features for secure user access to different application resources.

Stochastic Simulation of Covid-19 Epidemic | *C, Matlab*
- Implemented a graph-based model to represent the spread of COVID-19 epidemic.
- Simulated the transmission dynamics, accounting for infection rates, incubation periods, and recovery rates based on the latest scientific knowledge.

Path Finding Visualizer | *Python, Algorithms*
- Implemented a GUI which finds the optimal path in a maze that is generated randomly through recursive division algorithm.
- Implemented real-time updates to display the A* algorithm's progress, highlighting the visited nodes and the path.

TECHNICAL SKILLS

- **Languages**: C/C++,Python, HTML/CSS, JavaScript, SQL
- **Full Stack**: React.js, Express, Node, SLDS, bootstrap, jQuery, TypeScript
- **ML/Databases**: MySQL, MongoDB, Matplotlib, Seaborn, Scikit-learn
- **Tools/Skills**: Git/Github, Postman, Babel, Google Colab

ACHIEVEMENTS

- Expert on codeforces(Peak Rating: 1560).
- Secured **AIR 11375** among 0.15 million candidates appearing for the test in JEE Advanced.
- Secured 8345 Rank in JEE Mains out of 12 Lakh candidates.