PATNALA SHYAM RAM

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SUMMARY

Recent IIT graduate and dynamic full stack software developer with proven expertise in both front-end and back-end development, adept at collaborating with cross-functional teams to deliver robust, scalable solutions.

EDUCATION

IIT Hyderabad   **July 2020 - July 2024**

Bachelor of Technology in Chemical Engineering   *CGPA: 8.25*

Academic Coursework: Data Structures and Algorithms(C++), OOPS, Operating Systems, Database Management Systems, Computer Network

EXPERIENCE

Red Hibbert Group LLC | Intern   **Aug 2024 - Oct 2024**

Full Stack Developer

- Redesigned dashboards to display Salesforce Marketing Cloud data with OAuth 2.0 authentication using React.js, Express.js, and Salesforce Lightning Design System (SLDS) and integrated with SFMC.
- Built and maintained SOAP API integrations using WSProxy to retrieve and display data from Salesforce Marketing Cloud, improving performance and user experience.
- Refactored and optimized existing backend code using Express.js for Salesforce Cloud projects.

PROJECTS

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.

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.

TECHNICAL SKILLS

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

ACHIEVEMENTS

- Secured **AIR 11375** among 0.15 million candidates appearing for the test in JEE Advanced 2019.
- Expert on codeforces(Peak Rating: 1560).
- Secured 297 Rank in AP Eamcet out of 3.38 Lakh candidates .