

# 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 and passionate about exploring machine learning to drive innovation and enhance data-driven decision-making.

## 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 WSPProxy 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 .