Gaurav Singh

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Education

B. Tech, Computer Science and Engineering, 8.08 CGPA   Jhansi, India
IET Bundelkhand University

Technical Skills

Programming Languages: Python, JavaScript, Java
Database: MongoDB, MySQL
Frameworks and Libraries: Langchain, React.js, Node.js, Express.js, Tailwind CSS
Version Control Tools and IDE: Git, GitHub, Visual Studio Code, Intellij
Course Work: Generative AI ,Object Oriented Programming, Database and Management system, Operating System and Data Structure and Algorithms

Professional Experience

SDE Intern | Central Ground Water Board   Jul 2023 – Dec 2023|Faridabad, India

❖ **Developed a standalone desktop application**:This application is used by for analyzing ground water data, which will be used by scientists of CGWB.

❖ **Built Interactive Graphs**: Implemented US Salinity plot to showcase proficiency in data visualization and analysis using NodeJs, ReactJS and PlotlyJS.

SDE Intern | *Indian Institute of Technology Kanpur*   Sep 2023 – Oct 2023 | Kanpur, India

❖ Created comprehensive virtual lab simulation applications using HTML, CSS, JavaScript, Vectary and jQuery.

❖ implement features that replicate real-world conditions and provide users with an interactive experience in the field of Advanced imaging in Transmission Electron Microscopy.

Projects

Email Alerting System | *Node Js, Git, VS Code* link

❖ Monitors a specific POST endpoint for failed requests caused by invalid headers or an incorrect access token.

❖ Tracks the number of invalid requests from each IP address within a configurable time window

❖ Triggers alerts through notification (gmail) when a threshold of failed attempts crossed from the same IP is exceeded, using Google's SMTP server to send the emails..

Cloth-Store | *React js, Express js, MySQL, Git, VS Code* link

❖ Developed APIs using Express.js to handle user authentication, product management, and order processing.

❖ Implemented Tailwind CSS and Developed dynamic and interactive product pages, shopping cart, and user authentication components.

❖Integrated React Context API for state management, ensuring efficient data flow and component reusability.

Task Management System | React *js, Express js, MongoDB, Git, VS Code* link

❖ Developed a full-stack management application that allows users to create, update, delete, and prioritize tasks.

❖ Implemented *JWT*-based authentication for a secure user login system to manage the task.

Achievements

❖ **Smart India Hackathon Winner 2023.** link
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❖ Selected for an Open Source Project Hydrateq under **Central Ground Water Board .**