Prem Nath

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An aspiring software developer eager to expand his knowledge and apply skills effectively. Seeking opportunities to maximize potential and contribute meaningfully to the growth of the organization.

Experience

Full Stack Developer Intern | The Imagination World, Mohali   **November 2023 - May 2024**
- Implemented and gained expertise in development of web applications using MERN stack.
- Executed deployment of Web Applications on servers.

Education

- **MCA | JSS Academy of Technical Education, Noida**   **2024**
  Major: Computer Science
- **B.Sc. | University of Lucknow, Old Campus**   **2022**
  Major: Mathematics and Computer Science | Minor: Physics
- **12th | Army Public School, Kanpur**   **2018**
  Subjects: Mathematics, Physics, Chemistry, English and Physical Education
- **10th | Army Public School, Patiala**   **2016**
  Subjects: English, Mathematics, Science, Social Science, Hindi and Computers

Skills

- **Programming Languages:** Java (Proficient), C, Python, JavaScript.
- **Full Stack Development:** HTML, CSS, Node JS, React JS, Express, Spring Boot, Anaconda.
- **Database:** MySQL, Mongo DB, Oracle
- **Developer Tools:** IntelliJ, VS Code, Git.
- **Clouds:** AWS, Azure.
- **Soft Skills:** Leadership, Public Speaking, Teamwork, Discipline.

Projects

PixSolve || An ML based Doubt solver
- Developed PixSolve, an application using Python, Streamlit, and Open AI; It is a fully automated doubt solver with two different modes.
- It utilizes a Swin Transformer Encoder to process input images into feature vectors, and an mBART Decoder to generate the predicted formula from the output text sequence.
- It extracts mathematical and scientific expressions from hand-written images, simple images and screen captured images and displays solutions, its BLEU score of equation extraction is 0.9127.
- We have called Chat GPT API model "gpt-3.5-turbo" to find the solution of extracted expressions.

Attendance Management system || A Full Stack Web Application
- Developed a web application using MySQL, NodeJS, Express in the backend and ReactJS in frontend, for managing attendance records. That can reduce the paperwork by 20% and save time.
- Implemented features for adding, updating, and viewing attendance data. Consumed RESTful APIs to fetch and display data.
- Ensured responsiveness and cross-browser compatibility.

Hotel Website || A Responsive Website
- Created a hotel website frontend using HTML, CSS, JavaScript and Bootstrap.
- The website is responsive across the platforms.

Responsibilities & Achievements

- Was a part of Codzen society in college.
- Completed 3 years of NCC training and trained 1st-year students for the Independence Day's parade.
- Awarded 4 gold medals in the Math Olympiad at the secondary and higher secondary levels.
- Held various leadership roles, including House Captain, Discipline In-charge, and Event Organizer.
- Served as Captain of the house basketball team and actively participated in numerous sports events.