

MUKESH KUMAR MANDAL

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Education

Indian Institute of Information Technology, Nagpur

2020 - 2024

Bachelor of Technology (CGPA of 8.12)

Nagpur Maharashtra, India

Experience

Traviez Innovations private Limited

Jan 2024 – May 2024

Backend Developer · Internship

India

- Collaborated closely with the development team to implement scalable and maintainable backend solutions, ensuring efficiency and reliability in accordance with project requirements.
- Utilized advanced skills in Nest.js and Flask frameworks to actively participate in the creation of microservices, concurrently refining data management strategies and bolstering system efficiency via PostgreSQL and other relational database management systems (RDBMS).

Oasis Infobyte

Sep 2023 – Oct 2023

Web Development and Designing · Internship

India

- Crafted and engineered a customized website to present professional expertise, qualifications, project portfolios, and additional relevant content with a focus on enhancing personal branding and showcasing achievements.
- Implemented JavaScript to elevate user engagement and facilitate dynamic content updates, including real-time project integrations and interactive functionalities like resume features, streamlining accessibility to credentials for prospective employers or clients.

Unacademy

Feb 2021 – Jul 2022

Educator

India

- Educator at Unacademy, Where I guiding and mentoring students in problem-solving strategies.
- Designed and delivered interactive and engaging lessons to students to facilitate their understanding of complex concepts and improve their performance.

Projects

Mysterious Chat | *React Js, Sass and Firebase* | [Link](#)

- Engineered a React Js and Sass-powered chat application enabling registered users to engage in real-time conversations, exchange images and emojis, fostering seamless connectivity.
- Leveraged Firebase for backend connectivity and user data storage, ensuring seamless synchronization and high scalability of the application.
- Utilized React Js concepts including components, props, and state methods to craft a performance-driven and reusable user interface prioritizing user-friendliness.

Mysterious Chess AI | *Python Using Monte Carlo Tree Search(MCTS)* | [Link](#)

- Developed a sophisticated chess engine leveraging Monte Carlo Tree Search (MCTS) for efficient position generation and evaluation, enabling the AI to analyze up to 10 moves ahead in each game.
- Implemented key chess algorithms, including handling legal moves, castling, en passant captures, and pawn promotion, contributing to the engine's robustness and versatility.
- Explored the integration of cutting-edge machine learning techniques, such as reinforcement learning to empower the AI in learning and adapting strategies from past games, enhancing its overall performance.

Mysterious Gmail | *React Js, MUI, Node Js, Express Js, MongoDB and smtpjs* | [Link](#)

- Created a Gmail Clone with the MERN stack (MongoDB, Express.js, React.js, Node.js) to offer users an authentic email experience. Employed Material UI for a responsive interface, enabling real-time email composition and sending.
- Incorporated the smtpjs library for seamless email functionality, enabling users to receive emails within the application. Implemented Inbox, Drafts, and Starred features, offering a comprehensive email management system.
- Utilized MongoDB to efficiently store and retrieve email data, ensuring fast and reliable performance. Engineered the backend with Node.js and Express.js, establishing a secure and robust server-side architecture to manage API requests and user accounts effectively.

Skills

Languages: C++, C, HTML/CSS, JavaScript, Java, Python, SQL

Technologies/Frameworks/Libraries: Git, ReactJs, NodeJs, ExpressJs, NestJs, Flask, Firebase, MongoDB

Developer Tools/software: Vs Code, NetBeans, Android studio, Xampp, Eclipse Ide, Pspice, Matlab, NGSPICE , Microwind , Proteus, Keil, CST suite , Arduino ,Multisim