SUYASH RAI

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Education

Indian Institute of Information Technology and Management, Gwalior   **Expected July 2026**
Bachelors of Technology in Computer Science   *CGPA: 8.74*

Sarvodaya Vidyalaya, Kota   **July 2022**
Central Board of Secondary Education   *Percentage: 94%*

Experience

Web Development Intern   **Feb − May 2024**
Kopernicus   *KolKata , India; Remote*

- Developed and maintained a high-performance web application using **Node.js**, **Express.js**, **MongoDB**, and**Redis** , ensuring seamless backend operations and data management.
- Optimized API performance by implementing Redis caching, reducing database load and improving response time by **30%**, leading to faster user interactions.
- Configured and managed Nginx as a reverse proxy, efficiently distributing traffic across **5+** backend servers, enhancing security, and improving load balancing for better scalability.

Full Stack Intern   **May 2025 − Ongoing**
C3iHub   *IIT Kanpur , India; Remote*

- Contributing to the development of a decentralized hospital management system using Ethereum blockchain to enable secure and tamper-proof storage of medical records.
- Designing and maintaining the frontend in React.js, focusing on creating a user-friendly interface for patients, healthcare providers, and administrators.
- Integrating Web3.js to bridge the frontend with smart contracts, enabling seamless blockchain interactions within the dApp.
- Also managing parts of the backend using Node.js and Express, developing APIs and ensuring smooth communication between the UI, server, and blockchain components.

Technical Skills

Languages: C/C++, Java, Javascript
Web Development: HTML, CSS, JavaScript, ReactJS, ExpressJS, NodeJS, REST API
Databases: MySQL, Redis, SQL, MongoDB
Tools: Git, GitHub, Postman, Canva, IntelliJ Linux, Docker, AWS, Jenkins
Course-Work: Data Structure, Object Oriented Programming System, Computer Networking, Operating System, Database Management System, Algorithms

Projects

Messo - Mess Management Application of Hostel | *Node, Express, MongoDB, REST API, Docker, Nginx*   **Feb 2025**
- Messo streamlines mess operations for **300+ users**, managing meal plans, subscriptions, feedback, and attendance tracking efficiently.
- Built with **Node.js**, **Express.js**, **MongoDB**, and **REST APIs**, ensuring smooth backend processing and reliable data storage..
- Utilized **Docker** and **Nginx** for scalable deployment, reducing deployment issues by **30%** and improving performance with load balancing across **3+ backend instances**.

CogniCare - Alzheimer Detector | *ReactJS, CSS, Python, Machine Learning*   **July 2024**
- Developed **CogniCare** a web application for **Alzheimer detection**, leveraging Python libraries and the **Pitt Corpus Dementia Bank** to analyze speech patterns and cognitive decline indicators.
- Implemented **ML models** for Alzheimer diagnosis, improving prediction accuracy with validated training data.
- Built a responsive frontend using **React** and **CSS**, ensuring a user-friendly experience.
- Integrated RESTful APIs for seamless data processing and real-time analysis, improving system efficiency.

Achievements

- Winner of **ARIC CANDIEE** - 2023 with a participation **100+** teams
- Reached Semifinals of **Adobe Hackathon** with a participation of **300+** teams for outstanding project performance.
- **900+** Algorithmic questions solved at all platforms with **700+** on **Leetcode**
- **Placement Representative** at IIT Gwalior.