



Aman Meena

Creative and Innovative Web Developer

Kota 324008, Rajasthan
+91 8005903704
amankmeena845@gmail.com

Profiles

https://www.linkedin.com/in/aman-meena-7a7961204
https://github.com/amankmeena

Skills

Frontend Development

React, Next.js, HTML5, Angular, Redux

Backend Development

Node.js, Express.js, REST APIs, Socket.IO

Programming Languages

JavaScript, Python, C++, Golang

Database & Tools

MongoDB, MySQL, Git, Docker

Certifications

Web Development

YHills
2024

Experienced software developer specializing in **full-stack web development**, with hands-on expertise in **React**, **Node.js**, **Express**, and **MongoDB**. Proven track record in building scalable web applications, real-time chat platforms, and e-commerce features, with a **focus on optimizing performance** and **user experience**.

Education

IIT Kharagpur November 2020 to July 2025
Metallurgical & Materials Engineering MTech Dual Degree 5Y 7.29

Experience

Rudraksha Welfare Foundation August 2024 to October 2024
Software Developer Remote

- Developed a responsive **WordPress** website using Astra theme and Spectra, creating core pages with intuitive, user-friendly navigation.
- Integrated **Forminator plugin** to implement Contact Us and Donation forms, including an anonymous donation option to enhance user privacy.
- Designed and built a custom Donation **Receipt Generator plugin** with **FPDF** and **FPDI** libraries for automated, personalized PDF receipts.
- Optimized **MySQL** database structure and queries to ensure efficient storage, retrieval, and integrity of user-submitted form data.
- Implemented advanced features such as a newsletter subscription, blog page, and categorized blog posts to boost website functionality and user engagement.

YHills February 2024 to March 2024
Web Developer Remote

- Completed internship-based training in **full-stack web development**, with a focus on modern technologies and best practices.
- Built and deployed a **personal portfolio** and a **developer blog** using **Next.js**, **TypeScript**, and **Tailwind CSS**.
- Integrated dynamic features like **project detail pages**, **JSON-based content fetching**, and **responsive UI components**.
- Leveraged **GitHub** for version control and **Vercel** for live deployment.
- Gained hands-on experience in **DOM manipulation**, **API design**, **dynamic routing**, and **responsive design principles**.

Projects

Real Time Chat Application May 2024 to June 2024
Project Lead

- Built a real-time full-stack chat application using **React.js**, **Node.js/Express**, **Socket.IO**, and **MongoDB**, supporting one-to-one and group messaging with a responsive UI.
- Implemented secure authentication and session handling** using **JWT** and **Redis**, with role-based access, protected routes, and persistent logins.
- Integrated advanced features** like file uploads (**Multer**, **GridFS**), avatar generation (**Sharp**), **presence/typing indicators**, and per-user message deletion.
- Developed scalable RESTful APIs and a BFF layer** for efficient data handling, API security, and modular architecture with robust error logging and notification management.

MPI-Based MD Code Optimization August 2023 to November 2023
Term Project

- Integrated MPI** into **molecular dynamics (MD) code**, achieving significant performance improvements by **distributing computations across multiple processors**.
- Conducted **performance evaluations** by plotting **CPU** and **wall-time** for varying system sizes, demonstrating the scalability of the optimized code.
- Enhanced the efficiency of **large-scale simulations**, **reducing computation time** and **improving resource utilization** on high-performance computing (HPC) systems.
- Improved parallel execution** by **balancing workloads** and **minimizing communication delays**, resulting in more efficient and scalable simulations.

Positions of Responsibility

Hall President August 2023 to July 2024
Patel Hall of Residence

- Led initiatives** to improve welfare for **450+ hall residents** as **apex representative**.
- Elected by 456 students**; led a team of **7 General Secretaries** and **19 Secretaries**.
- Raised INR 20 Lakhs** from alumni and **led a major hall infrastructure renovation project**.
- Served on the Student Senate**, contributing to decisions affecting **16,000+ students**.
- Managed INR 12 Lakhs budget (18% YoY increase)** for hall activities. **Planned and executed 40+ events** throughout the year.

Extra-Curricular Activities

- Represented Patel Hall** in **Inter-Hall Sketching Competition**; participated in **Open IIT Sketching Competitions (2022, 2023)**.
- Won Gold Medal** in **Thermocol and Clay Modelling** at **Inter-Hall General Championship**, IIT Kharagpur (2022).
- Served as the **Member of National Service Scheme (NSS)** at IIT Kharagpur and **mentored the upcoming batch**