AKSHAT SINGH

Patna, Bihar

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EDUCATION

Vellore Institute of Technology	**2022 – 2026**
*B.Tech - Computer Science and Engineering - **CGPA - 9.11***	*Vellore, Tamil Nadu*
MDS Public School	**2020 – 2021**
*CBSE - Class XII - **Percentage - 89.4%***	*Udaipur, Rajasthan*
Maharana Mewar Public School	**2018 – 2019**
*CBSE - Class X - **Percentage - 94.4%***	*Udaipur, Rajasthan*

TECHNICAL SKILLS

Languages: C/C++, Java, JavaScript, SQL
Web Technologies: HTML5, CSS3, React.js, Express.js, Tailwind CSS, Socket.IO
Database & Cloud: MongoDB, Firebase, AWS
Tools & Platforms: Git, GitHub, Render, Vercel, Postman
Key Concepts: Data Structures & Algorithms, Object-Oriented Programming

EXPERIENCE

Power Grid Corporation of India Ltd. ↗   **May 2025 – Jun 2025**
Project Intern – R&D   *Patna, India*

- Proposed and implemented a **Transformer Health Monitoring Portal**, resulting in a **100% faster fault diagnosis rate** compared to previous **manual, paper-based methods**.
- Created modules for secure **data entry, real-time status visualization**, and **email-based alerting** using **React.js**, **Firebase**, and **EmailJS**.
- Used **Recharts** to visualize transformer-wise trends over time, helping identify repeated faults or unusual parameter spikes for faster manual diagnosis.
- Simplified tracking by providing **centralized access** to historical data, reducing dependence on paper-based logs.

PROJECTS

Real-Time Messaging Platform ↗ | React.js, Node.js, Express, MongoDB, Socket.IO   **Nov, 2024**

- Designed and implemented a full-stack chat system with real-time **message delivery** and **user presence indicators** (online/offline).
- Secured the platform using **JWT authentication** and session encryption, enabling protected routing and private user access.
- Enabled seamless **UI customization** with **32 switchable themes**, responsive design, and integrated **media sharing** via Cloudinary.

Product Store ↗ | React.js, Node.js, Express, MongoDB, Chakra UI   **Aug, 2024**

- Developed a **responsive product management system** enabling **real-time addition**, **modification**, and **removal of products** with **persistent cloud storage**.
- Enabled **theme toggling** (light/dark) and optimized UI/UX for usability across devices using modern component libraries.

For more of my projects, you can explore the projects section on my website or visit my GitHub repository *(Link)*.

CERTIFICATIONS

- **AWS Certified Cloud Practitioner - Amazon Web Services** *(Link)*

EXTRACURRICULAR

E-Cell, VIT Vellore
Core Member

- Strategized and executed **marketing campaigns for E-Summit 2024**, improving **on-campus outreach by 30%** through **digital and offline channels**.
- **Assisted the design team** in delivering promotional content that reached over **500 students**.