

Khushiram Meena

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Education

Indian Institutes of Information Technology (IIIT), Nagpur

Dec 2020 – May 2024

B.Tech in Computer Science and Engineering

Experience

Software Engineer at Ati Motors

Jun 2024 – Present

- Engineered real-time Teleoperation (TeleOps) for AMRs using **WebRTC**, achieving **40%+** reduction in latency(50–100 ms) for video streaming and remote control.
- Integrated real-time **2D** visualization of **3D** LiDAR point cloud data into TeleOps, resolved frontend rendering issues and enhancing situational awareness(safety) for remote operators.
- Developed a secure, real-time Remote Terminal for AMR diagnostics and control using **WebSockets**, with integrated **2-factor** authentication via Google Authenticator (**TOTP**) to prevent unauthorized access.
- Revamped the internal Map Editor by migrating **API** state management to **Zustand** and building advanced UI tool like adaptive Grid View and a Ruler for precise spatial editing, improving editor performance and usability by **50%**.
- Implemented a traffic-light plugin for AMRs that triggered real-time visual indicators (traffic lights), improving fleet coordination and reducing inter-AMR conflicts by **95%**, enhancing on-site human awareness and safety.
- Reduced AMR on-site issues response time by **50%** by integrating **PostgreSQL** with **Grafana** and implementing an automated escalation chain that routes incidents to support teams based on shift schedules.
- Orchestrated scalable containerized workloads and services on **Kubernetes clusters**, enhancing system reliability and streamlining deployment automation.
- Created responsive, component-based UIs with **React**, **Typescript** and **MUI**, enhancing user experience and supporting real-time features in AMR control systems.
- Collaborated on backend API integration using **FastAPI**, **WebSockets**, and **Redis**, enabling real-time data flow, efficient session handling, and seamless communication across distributed AMR systems.

Software Engineer Intern at Ati Motors

Mar 2024 – Jun 2024

- Used **Amazon CodeGuru**, **Prometheus**, and **Coroot** to monitoring and profiling backend **APIs**, reducing response time by **45%** and improving Fleet Manager stability.
- Configured automated health monitoring pipelines for Fleet Manager, collecting runtime metrics, logging operational data, and delivering real-time Slack reports to improve incident response time by **30%**.

Full Stack Developer Intern at Primathink Technologies Pvt. Ltd.

Nov 2022 – Feb 2023

- Programmed a full-stack, responsive Invoice Management System using HTML, CSS, JS, Bootstrap, PHP, and **MySQL**, improving cross-device usability and reducing manual billing time by **40%** for retail workflows.

Projects

Online-Test-Conducting-System [[Github](#)] [*React, Material UI, Node.Js, MongoDB*]

Jun 2024

- Built a full-stack Online Test Conducting System using **React**, **Node.js**, and **MongoDB**, enabling role-based access for admins, teachers, and students. Improved test management efficiency by **40%** via responsive dashboards.

Filter candidate Profile [[Github](#)] [[Preview](#)] [*React, Next.js, Tailwind CSS*]

Feb 2024

- Designed a responsive **React** and **Next.js** web page with filtering to streamline candidate search across **3+** parameters.

Job Search Portal [[Backend](#)] [[Frontend](#)] [*React, TypeScript, Python, FastAPI, PostgreSQL*]

- Deployed a full-stack job portal with an admin-controlled dashboard, **3+** job filters, and real-time auto-post integration with Telegram—enhancing user engagement by **40%**. Enabled rich content rendering using Markdown format.

Relevant Coursework

Computer Science: C/C++, Data Structures and Algorithms, Object Oriented Programming, Database Management System (DBMS), SQL, Operating System

Technical Skills

- Languages** : C, C++, SQL, Python, Java, JavaScript
- Frontend** : React.js, TypeScript, Next.js, Zustand, Tailwind CSS, Material UI, Bootstrap
- Backend** : FastAPI, Node.js, Express.js, Microservices, WebSockets, Redis
- Databases** : MongoDB, PostgreSQL, MySQL
- DevOps & Infra** : Docker, Kubernetes, EC2 instance, S3 Bucket, Helm, Amazon CodeGuru, Coroot, Prometheus
- Developer Tools** : GitHub, VS Code, Eclipse IDE, Google Colab, Postman

Coding Profiles

[Leetcode](#)

[GeeksforGeeks](#)

[CodeChef](#)