Lovely Sharma

Hyderabad | lovelysharmaas0812@gmail.com | +91-87664-18907 | linkedin.com/in/lovely-k-sharma/

github.com/CoderLovely08

AI-enabled Full Stack Software Engineer with experience building scalable web, mobile, IoT, and SaaS platforms used by thousands of users and devices. Proven expertise in Flutter, React, Node.js, cloud-native architectures, and intelligent automation systems. Experienced in integrating AI-assisted workflows, real-time data pipelines, and device communication systems to improve reliability, performance, and operational efficiency.

Experience

Software Engineer, Rapidcircuitry – Hyderabad   **Mar 2024 – Present**

- Founding Software Engineer owning end-to-end development of production-grade IoT, mobile, and SaaS applications serving live enterprise clients.
- Architected and deployed a Flutter-based ECG monitoring application integrating BLE sensors (MAX30100) for real-time PPG data collection, cloud sync, and analytics.
- Designed a fault-tolerant MQTT acknowledgment and retry mechanism, improving device command delivery reliability to **99.99%**.
- Built a scalable IoT SaaS platform using AWS IoT Core and MQTT to monitor and control **1000+ active devices**, reducing operational overhead by **50%**.
- Implemented intelligent automation pipelines for device management, data ingestion, and system health monitoring, improving response times and system stability.
- Established CI/CD pipelines using Docker and GitHub Actions, enabling automated builds, testing, and zero-downtime deployments.
- Optimized backend systems using batch processing, queue-based workflows, and database indexing, reducing database load by **40%**.
- Developed a BLE-enabled women safety mobile application with real-time location tracking, alert systems, and live monitoring dashboards.

Student Developer, Ballarpur Institute of Technology – Chandrapur, MH   **Aug 2022 – Feb 2024**

- Led development of **BIT-Connect**, a full-stack academic collaboration platform actively used by **4000+ students and faculty**.
- Designed scalable backend services and real-time notification systems supporting assessments, tutoring modules, and student engagement features.
- Mentored **200+ students** in full-stack development, cloud systems, and IoT fundamentals.
- Implemented automated server scheduling and workload optimization, reducing infrastructure costs by **25%**.
- Collaborated with academic and administrative teams to align software systems with institutional workflows.
- Built and deployed the official college website with a custom CMS, enabling non-technical staff to manage content independently.

Projects

BIT-Connect: Student Collaboration Platform 🔗   **Jan 2023 – Sep 2023**

A live collaboration platform used by students and faculty at BIT for academic engagement.

- Developed features like skill tracking, tutoring opportunities, quizzes, and real-time notifications.
- Deployed and maintained on AWS; used actively by **4000+** students.
- **Tech Stack:** NodeJs, ExpressJs, PostgreSQL, AWS, Redis

Digipass System 🔗

A smart QR bus pass system for hassle-free travel, allowing passengers to scan and pay for bus rides. With dedicated Admin and Conductor dashboards, it provides a comprehensive solution for bus operators to manage their operations efficiently.

- Implemented secure role-based authentication for Admin, Conductor, and Users.
- Enabled QR code generation, scanning, and real-time validation of passes.
- Designed dashboards for streamlined pass management and operational insights.

Education

Ballarpur Institute of Technology,
B.Tech in Computer Science and Engineering - Ballarpur, MH

CGPA: 8.8/10 - **Nov 2021 – Jul 2024**

Ballarpur Institute of Technology,
Diploma in Computer Science - Ballarpur, MH

Percentage: 95.83 - **Jul 2019 – Jul 2021**

Achievements

Inter-College Coding Competition Winner - Secured 1st place among 100+ participants from Government Engineering Colleges in Chandrapur during final year (2024)

Technical Skills

Languages: JavaScript, TypeScript, Dart, Java, Python

Frontend & Mobile: React, Next.js, Flutter, TailwindCSS, Bootstrap

Backend & APIs: Node.js, Express.js, REST APIs, Authentication, Webhooks

Databases: PostgreSQL, MySQL, MongoDB, SQLite, Redis

Cloud & DevOps: AWS (IoT Core, EC2), Docker, CI/CD (GitHub Actions), Git

AI & Automation: AI-assisted workflows, LLM API integration, prompt engineering, intelligent automation, system monitoring

IoT & Protocols: MQTT, BLE, WiFi, NodeRed, device telemetry, real-time dashboards