

SAMEEP SINGH

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EDUCATION

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| <ul style="list-style-type: none">• Vellore Institute of Technology
B.Tech. - Computer Science & Engineering | Nov 2022 - Present
CGPA: 8.57 |
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TECHNICAL SKILLS

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| <ul style="list-style-type: none">• Languages: Java, Python, JavaScript• Frontend: React.js, HTML/CSS, Bootstrap, Tailwind CSS• Backend: Node.js, Express.js, RESTful APIs | <ul style="list-style-type: none">• Cloud & DevOps: AWS, Docker, Git• Databases: MongoDB, MySQL• Developer Tools: GitHub, VS Code |
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PROJECTS

- **FleetOptix: Cloud-Based Fleet Management System** | React.js, Node.js, AWS, MySQL
 - Developed logistics fleet management solution using **AWS services (EC2, RDS, DynamoDB, Lambda, IoT Core, CloudWatch)** for real-time **GPS tracking**, route optimization, and predictive maintenance, reducing delivery delays.
 - Built a full-stack solution with **React.js frontend and AWS microservices backend**, implementing automated alerts, maintenance scheduling, and cost tracking, improving fleet utilization and operational efficiency.
 - Designed interactive dashboards and analytics modules using **CloudWatch metrics and MySQL reporting**, providing managers with real-time insights on fuel consumption, driver performance, and safety compliance.
 - Implemented a vehicle and driver management system with trip allocation, automated reminders, and reporting, enabling proactive decision-making and faster operational response.
- **StockWave: Stock Trading Platform** | Java, React.js, Node.js, MongoDB, AWS
 - Engineered a full-stack trading platform, integrating real-time market data, secure **JWT authentication**, and live buy/sell order execution, reducing trade processing time.
 - Developed responsive trading dashboards using **React.js, Material-UI, and Bootstrap**, featuring portfolio management, live market analytics, and interactive stock price visualizations.
 - Integrated MongoDB with Node.js APIs for high-speed data persistence, ensuring synchronization of trades and market data.
 - Optimized application deployment using **AWS Amplify**, enabling scalable, high-availability performance for multiple concurrent users.
- **RhythmLink: Real-Time Music Collaboration System** | React.js, Node.js, Socket.io, WebRTC, MongoDB, AWS
 - Built a **real-time online music jam platform** using **WebRTC, React, Node.js, and Socket.io**, where multiple users can play music together with **very low audio delay** and live chat.
 - Created a **room-based connection system** to let users join sessions easily and communicate smoothly during live collaboration.
 - Improved **sound quality and timing** by handling internet delay, buffering, and connection issues.
 - Integrated **AWS (EC2, S3, CloudFront, CloudWatch)** to demonstrate full-stack, cloud, and real-time system skills.

CERTIFICATIONS

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| • AWS Certified Cloud Practitioner | Verification Jun 2025 |
| • IBM DevOps, Agile & Design Thinking | Verification Apr 2025 |

ACHIEVEMENTS

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| • Special Mention - CBIT Hacktoberfest Hackathon 2024 | View Certificate |
| • Selected For 48th Jawaharlal Nehru Science Exhibition (JNSE) - KVS National Seminar Participant | View Certificate |