

OBUPREETHI G

Full Stack Developer | Software Engineer | MERN Stack
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Full Stack Developer with hands-on experience building scalable MERN applications, cross-platform React Native apps, real-time features, and production-ready project implementations across web and mobile platforms.

SUMMARY

Full Stack Developer specializing in the MERN stack and Next.js, building AI-driven, scalable web applications. Strong experience with REST APIs, MongoDB Atlas, authentication, real-time features, and cloud deployment (Render, Netlify). Comfortable with DSA in Java, problem solving, and creating user-centric platforms in domains like ed-tech, healthcare, fintech, and social impact.

EDUCATION

B.E. Computer Science and Engineering
Kongu Engineering College, Erode | CGPA: 8.48 | 2023–2027
HSC (Computer Science), 92.8% – 2024
St. Joseph’s MHSS, Gugai, Salem
SSLC – 2022
St. Joseph’s MHSS, Gugai, Salem
Relevant Coursework: Data Structures, Algorithms, DBMS, OOP, Operating Systems, Computer Networks

TECHNICAL SKILLS

Languages: Java, JavaScript, Python (basic), SQLWeb
Technologies: HTML5, CSS3, Bootstrap, Tailwind CSS
Frontend: React.js, Next.js
Backend: Node.js, Express.js
Databases: MongoDB, MongoDB Atlas
AI & Tools: AI APIs, LLM integration, OCR (Tesseract), Face Recognition (FaceAPI / ML model)
DevOps & Tools: Git, GitHub, Render, Netlify, Postman, VS Code
Fundamentals: Data Structures & Algorithms, OOP, Operating Systems basics

AREA OF INTEREST

Full Stack Web Development, AI & ML Integration, App Development, UI/UX Design, Cloud & DevOps, Databases, Problem Solving

PROJECTS

SeniorEase – Elderly Support Portal | MERN, Twilio (2025)

- Built a full-stack elderly support portal for healthcare & services.
- Integrated Twilio alerts + Razorpay, improving workflow by 40%.

EduConnect – AI Assistant (19 features)| MERN, LLaMA (2025)

- Developed AI learning assistant with Q&A & PDF NLP.
- Used MERN + LLaMA RAG, improving learning efficiency by 35%.

Math Visualization Tool (12 features)| MERN, LLaMA (2025)

- Built math visualization tool with real-time graphing.
- Integrated LLaMA-8B RAG for accurate explanations.

LinguaLearn – Language Learning Platform | Next.js (2025)

- Created multi-language platform with real-time UI translation.
- Built level modules & optimized performance.

BloodLink – Blood Bank System | MERN (2025)

- Designed a centralized coordination system connecting hospitals and blood banks for quicker emergency responses.
- Developed MERN architecture with Razorpay integration, improving operational efficiency by 50%.

Nourish Aid – Food Donation Platform (In Progress) | MERN, WebSockets (2025)

- Developing real-time donor-receiver app with chat and expiry alerts.
- Adding location matching to speed up food distribution.

Real-Time Payment Monitor – Fraud Detection System (In Progress) | MERN, LLaMA (2025)

- Engineered an SSE-driven payment event stream incorporating device-signal anomaly detection for real-time fraud monitoring.
- Integrated LLaMA-based risk scoring to classify suspicious transactions and prioritize alert triage in simulation.

ACHIEVEMENTS

- **Overall Winner** – BYTS Hackathon (2025) – Math Visualization Tool
- **1st Place** – HackBuzz (2025) – EduConnect AI Assistant
- **2nd Place** – KEC Hackathon (2024) – SeniorEase Portal
- **2nd Place** – Hackons (2024) – Blood Bank Coordination System

CERTIFICATIONS

- MongoDB Certified Associate Developer (2025)
- Oracle APEX Cloud Developer (2025)
- NPTEL: Cyber Security & Privacy (2024) (IIT Madras)
- NPTEL: Privacy & Security in Social Media (2025) (IIT Madras)
- NPTEL: Research Methodology (2025) (IIT Madras)
- NPTEL: Demystifying Networks (2025)(IIT Madras)

SOFT SKILLS & LANGUAGES

- Leadership, Communication, Problem-Solving
- Teamwork, Creativity, Self-Learning
- English, Tamil, Kannada