

KOTARI SANDEEP

Full Stack Development | sandeepkotari19@gmail.com | +91 8317579761

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Professional Summary

Experienced full-stack developer skilled in React.js, Express.js, Node.js, MySQL, MongoDB, Java, Spring Boot, and Firebase. Expert in building scalable, secure applications with clean frontend-backend integration and REST APIs. Strong in DSA, microservices, and solving real-world problems through efficient, tech-driven solutions.

Education

Kalasalingam University
Bachelor of Technology in Computer Science and Engineering (AIML)

Srivilliputhur, Tamil Nadu
CGPA: 8.34/10

Technical Skills & Tools

- **Programming & Libraries:** HTML, CSS, TypeScript, JavaScript, React.js, Node.js, Express.js, Java, Machine Learning
- **Full Stack Development:** Frontend and backend integration, RESTful APIs, authentication, role-based access, secure server-side logic, responsive web design
- **Frontend Technologies:** HTML, CSS, JavaScript, TypeScript, Tailwind CSS, React.js, UI/UX with Canva & Figma
- **Backend & Databases:** Node.js, Express.js, Spring Boot, MongoDB, MySQL, Firebase (Authentication, Firestore, Realtime DB, Hosting), Supabase, Cloudinary (image & video storage and delivery)
- **Tools & Technologies:** Git, GitHub, Postman, VS Code, Firebase Hosting, Google Firebase, Vercel, Netlify, IntelliJ IDEA

Experience

Software Engineering Intern (Virtual)

- Developed REST APIs and controller layers using Spring Boot in a microservice setup
- Integrated Kafka for real-time data messaging
- Configured H2 Database and managed schema-level design

Kalasalingam Academy of Research and Education

- Worked under a project mentor on AI model research, focusing on optimizing image and text data. Built and fine-tuned deep learning models (CNN, RNN) for sign language detection and healthcare prediction.

Projects

Zero Hunger Mission: AI-Powered Food Rescue, Redistribution, and Social Welfare Support Platform

- Built and deployed a **real-time social** impact platform using **MERN** stack, Firebase (Auth, Firestore, FCM), and **Postman** to enable **city-based matching of donors and volunteers** for food donation, **NGO** support, and emergency aid. **Integrated secure login, push notifications**, and live status tracking (Accept → **Pickup** → Donate → **Complete**) via **RESTful APIs** tested with Postman. Deployed on **Vercel** and **Netlify** with a responsive UI, the solution scales efficiently to **reduce food waste**, support underserved communities, and deliver timely help through **smart tech and community collaboration**.

Robotic Hand for Color Sorting Using Computer Vision and ML

- This project features a **custom ML model** integrated with **OpenCV on Raspberry Pi** for **accurate real-time color detection**, even under varying lighting. Paired with **Arduino-controlled servo motors**, it ensures precise, efficient sorting. The **optimized mechanical design enhances speed, accuracy**, and **scalability**, setting it apart from traditional color-sorting systems.

AI-Powered E-Learning Platform

- Built a next-gen, AI-powered e-learning platform featuring an **AI smart board, video summarization**, and chatbot for personalized learning, enhanced with **3D modules**, a browser extension, and real-time NLP to boost engagement and accessibility—leveraging a modular, **scalable architecture** using **Python (PyTorch, OpenCV), React.js, Next.js, and MongoDB to enable future-ready digital classrooms**.

Achievements

- 1st Prize, IBM Ice Day Poster Presentation
- Qualified for Second Round, Samgatha x Vashisht Hackathon