

Deepak A S

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PROFESSIONAL SUMMARY

Full stack developer with experience in React, Flask, and FastAPI, and growing expertise in Spring Boot. Skilled in building REST APIs, integrating NoSQL databases, and deploying decoupled web applications.

EDUCATION

PES University <i>Master of Computer Applications (MCA)</i>	Bangalore, India 2023 – 2025
PESIAMS College <i>Bachelor of Computer Applications (BCA)</i>	Shimoga, India 2020 – 2023

WORK EXPERIENCE

Research & Development Intern <i>Centre for Healthcare Engineering and Learning (cHEAL)</i>	Mar 2025 – Present Bangalore, India
• Leading development of MindSync, a wellness app for ADHD subtypes using ML-based personalization	
• Developed RESTful backend with Flask for ML inference; integrated Firebase for real-time data synchronization	
• Worked across Flutter, Firebase, and Flask to deliver behavioral insights and mood analytics	

PROJECTS

Real-Time Multiplayer Tic-Tac-Toe <i>Spring Boot, WebSocket (STOMP), React.js</i>	2025
• Built a Java/Spring Boot backend using WebSocket (STOMP) to deliver real-time, bi-directional gameplay updates and synchronize moves across multiple players	
• Designed a thread-safe game engine using ConcurrentHashMap, atomic flags, and synchronized logic to safely manage sessions and prevent race conditions	
• Developed a React.js UI integrated with SockJS/StompJS, adding bot mode, restart flow, and a REST-based leaderboard for persistent player stats	
Grovo – Agriculture & Labor Platform <i>Flutter, Firebase, Razorpay API</i>	2025
• Developed a Flutter mobile app with Firebase Auth, Firestore, and Storage for user authentication and data management	
• Integrated Razorpay API for secure payment processing and built CRUD workflows for job postings and applications	
TrustGuardAI – Ethical AI Ad Engine <i>FastAPI, React.js, Supabase, Machine Learning</i>	2025
• Developed a FastAPI backend and React.js frontend as decoupled services; deployed on Render and Vercel with Supabase as the database	
• Built AI agents for emotional detection (EmpathyEngine) and ad explanation (TrustFlow+) to filter ads	
• Designed a mobile-first UI with Tailwind CSS; implemented analytics, user feedback, and preference management	

TECHNICAL SKILLS

Programming Languages: Java, Python, SQL

Web Technologies: React.js, HTML5, CSS3, REST APIs

Backend Frameworks: Spring Boot, Flask, FastAPI

Databases: MySQL, Firebase Firestore

Cloud & Messaging: AWS (basic), Apache Kafka (basic)

Core CS Concepts: Data Structures, Algorithms, OOP, Computer Networks, Software Engineering