

Jagdish Raut

Full Stack Developer

Pune, India

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[Portfolio](#)

[LinkedIn](#)

Summary

Full Stack Developer skilled in MERN and Java-based stacks, with hands-on experience in building robust and scalable applications using React.js, Node.js, Spring Boot, and RESTful APIs. Passionate about solving new problems, designing reliable systems, and exploring emerging technologies. Enthusiastic about DSA, low-level design, and backend architecture, with a keen interest in CP.

Education

Dr. D. Y. Patil College of Engineering, Pune.

July 2022 – Jun 2026

BE Information Technology - CGPA: 8.82/10

Achievements

- Winner - Smart India Hackathon 2024 Grand Finale (India's largest hackathon). [\[Certificate\]](#) [🔗](#)
 - Awarded Certificate of Excellence by Infosys at the TechZooka Innovation Challenge 2024. [\[Certificate\]](#) [🔗](#)
 - Ranked 11th out of 1000+ in CodeRed Competition (Offline CP Contest, Pune). [\[Certificate\]](#) [🔗](#)
 - Knight on LeetCode (rating 1861) | 3-Star on CodeChef (rating 1606) | 800+ problems solved
- [Leetcode](#) [Codechef](#) [GeeksforGeeks](#) [GitHub](#)

Experience/Leadership

DSA Mentor

Aug 2024 – Sep 2025

CPMC DYPCOE

- designed DSA problems for contest and mentored 50+ students by post contest discussion, solving problems and guiding members through challenges as part of CPMC Club.

Projects

Naamsiddhi: Advanced Police Record Management System [Github](#) [🔗](#)

Nov 2024 - Dec 2024

[Live Project](#) [🔗](#)

- Developed a research-oriented web-based Police Record Management System for Madhya Pradesh Police to enhance efficiency in handling criminal data and records using Algorithms, Node.js, Express.js, MongoDB, and EJS.
- Built **Phonetic and String Matching Algorithms** and Implemented Score based sorting to address transliteration, spelling variations, and phonetic similarities in Indian names, achieving over **98%** Recall and **95%** Precision.
- Optimized fuzzy name search by introducing B-tree indexing on phonetic codes and names in MongoDB, reducing query latency from minutes to milliseconds.
- Implemented a many-to-many relationship between **Profile** and **Case** schemas in MongoDB, enabling dynamic linking and efficient querying of associated data.
- Features:** Database suggestions, voice-to-text, bilingual support with translation and transliteration.

AIFitPro: AI Fitness Tracking Application [Github](#) [🔗](#)

Jul 2025 [Demo](#) [🔗](#)

- Developed a fitness tracking application with PKCE-based secure authentication, React.js frontend, asynchronous inter-service messaging, fitness monitoring, and context-aware Gemini API to provide personalized fitness recommendations.
- Designed a **Microservice Architecture** featuring multiple services, Eureka Server, API Gateway, centralized configuration, and Keycloak-based OAuth2 authentication; integrated **PostgreSQL** (multi-table) and **MongoDB** (collections) across services with **RabbitMQ** for asynchronous communication.
- Containerized and orchestrated multiple microservices using **Docker Compose**, ensuring scalability.

AI Agent: Automated Data Analysis and Bulk Email Delivery [Github](#) [🔗](#)

Aug 2025 [Demo](#) [🔗](#)

- Built a full-stack AI Agent using open-source N8N that reads relational database schemas, generates and executes SQL queries from natural language commands, and sends emails automatically.
- Implemented backend logic to maintain chat sessions, track all actions performed by the Agent, and manage context across interactions with the user.
- Technologies:** N8N, Ollama (GPT OSS), Gemini API, Node.js, React.js, PostgreSQL, SQL, Docker, Ngrok.

Skills/Technologies

- Programming Languages:** C, C++, Java, JavaScript, Typescript, SQL, Python
- Frameworks/ libraries:** React.js, Node.js, Express.js, Spring Boot
- Databases:** MongoDB, MySQL, PostgreSQL
- Tools/ Tech:** N8N, Docker, Kubernetes, Git, Github, Postman, AWS (basics)