

Prathamesh Halale

Full Stack & AI Software Engineer | SaaS | AI Systems | Enterprise Platforms



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🎓 EDUCATION

International Mobility Program — CSE (Hons.), INTI International University & Colleges
2025 – 2026 | Kuala Lumpur, Malaysia

B.Tech in Computer Science and Engineering,
Sanjay Ghodawat University
2023 – 2026 | Kolhapur, Maharashtra

Diploma in Computer Science and Engineering,
Sanjay Ghodawat Polytechnic
2021 – 2023 | Kolhapur, Maharashtra

🧠 SKILLS

Programming Languages: Java
Python C++ JavaScript Kotlin HTML
CSS PHP .Net

Web Development: Full-Stack
Development React.js Node.js REST
APIs

Mobile Development: Android
Development Java Kotlin Cross-
Platform Apps

Software Engineering: Object-
Oriented Programming Software
Development Lifecycle Automation
Software Development

Data & Algorithms: Data Structures
and Algorithms. Database
Management SQL NoSQL Data
Science Machine Learning Prompt
Engineering

IOT & Emerging Tech: Internet of
Things (IoT) Embedded Systems
Sensor Integration

Tools & Platforms: Git GitHub Jira
ERP Systems Cloud Platforms AWS
Google Cloud

AI & NLP: Natural Language
Processing Prompt Engineering
Large Language Models
Conversational AI AI Tools

Full Stack and AI Software Engineer with 4+ years building enterprise SaaS platforms, AI automation systems, and digital transformation solutions for manufacturing and startups.

🏆 HIGHLIGHTS

- AI Software Engineer driving smart factory digital transformation at **Tata Motors**.
- Technical Lead managing 16+ member engineering teams.
- Delivered 30+ enterprise and government AI/SaaS solutions.
- Expertise in Full-Stack, Android, AI Automation, and IoT.
- 5x Hackathon Winner | Microsoft Learn Student Ambassador.

📁 EXPERIENCE

Software Engineer – Digital Transformation & AI Solutions, Tata Motors
2026 | Dharwad, Karnataka

Driving plant digitalization at **Tata Motors** by developing AI-powered and SaaS-based enterprise solutions to automate manufacturing workflows and enable data-driven smart factory operations.

- Developed **SaaS platform** digitizing manual workflows across plant operations.
- Building **AI-driven automation solutions** for workflow monitoring, reporting, and decision support.
- Designing **on-premise enterprise deployments** aligned with manufacturing plant infrastructure and security standards.
- Integrating shop-floor data with centralized digital platforms for improved traceability.
- Working closely with plant stakeholders to convert operational challenges into scalable digital products.

Technical Lead – Product Development & Innovation, NextIn
2022 – 2025 | Kolhapur, Maharashtra

Led technology innovation and product engineering initiatives within Sanjay Ghodawat University's Innovation Center, driving startup incubation and enterprise solution development across AI, SaaS, and digital transformation domains.

- Delivered **30+ client and government digital solutions**, managing architecture, development, and deployment lifecycle.
- Led a 16-member cross-functional team across product engineering, UI/UX, and backend development.
- Built scalable SaaS platforms and AI-driven automation systems addressing operational and enterprise challenges.
- Mentored incubation startups in product architecture, scalability planning, and go-to-market readiness.
- Established development workflows and quality standards to ensure efficient and high-quality project delivery.

CERTIFICATES

Executive Diploma in Leadership and Management

PUBLICATIONS

Attendance Management System, International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCCE)

Fake GitHub Commit Detection System, International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCCE)

AWARDS

Academic Achievement award, Sanjay Ghodawat University 2025

IBM SkillsBuild Hackathon, — Awarded for Innovation and Technical Excellence in Solution Development.

Honored to serve as a Hackathon Judge, Google Developer Group(On Campus SGU)

Microsoft Learn Student Ambassador, Microsoft I Led technical initiatives as Technical Lead at Microsoft Learn Student Club (MLSC) for 1.5 years, driving projects, mentoring members, and organizing tech events

Lead Software Developer, Nexus Software Systems 2025 | Karjat, Maharashtra

Designed, developed, and deployed AI-driven enterprise solutions and digital platforms for government and industrial use cases, focusing on scalable product development, intelligent automation, and secure on-premise deployments.

Software Engineering Intern, Qualitas Techno Solutions

2022 – 2022 | Kolhapur, Maharashtra

Collaborated with a team to design, implement, and test IoT applications, improving device interoperability and performance.

- Delivered on-demand IoT and web projects for small businesses and startups.
- Built an IoT-based quality control system reducing product defects by 20%.
- Integrated cloud-based dashboards and sensor systems for manufacturing automation.

PROJECTS

Gate pass management system

- Developed a Gatepass Management System for **Tata Motors** to manage secure entry and exit of materials, vehicles, and visitors
- Integrated live camera feed to capture real-time entry/exit data and monitor activities
- Automated boom barrier control based on gatepass validation, reducing manual intervention

Scrap Yard Management System

- Developed a Scrap Yard Management System for **Tata Motors** to digitize scrap handling operations
- Deployed the system on an on-premises network, ensuring high security and low-latency access

Stock Market Platform

- Developed a trading simulator with OHLC data for historical trend analysis.
- Reduced trade latency through optimized algorithms and API integration.

DORA – One Voice. Infinite Control.

- Built a single voice assistant interface to manage mobile, desktop, and IoT systems simultaneously
- Implemented **parallel AI agents enabling real-time multi-task execution across devices**
- Designed cross-device synchronization with shared AI memory and context awareness

Training And Placement Platform

- Built a platform connecting students, colleges, and MNCs for recruitment and networking.
- Enabled automated application tracking and secure data management.

Finder AI: AI-Based Missing Person Identification System

- Implemented face recognition pipelines with CNN-based feature extraction, real-time video processing, and image preprocessing to ensure accurate and scalable identification.

360 VR Project - Unity, IoT, Cloud Integration

- Created a multi-headset-compatible VR application with IoT device connectivity.
- Engineered a custom OS layer to support real-time communication between devices.

Neuro VR - EEG, NLP, AI Integration

- Designed a gaming device that responds to brain signals for hands-free gameplay.
- Leveraged NLP and EEG data to train models for real-time action recognition.