

# B Suraj Patra

B.Tech CSE Student | Software Engineering & Full-Stack Development | Open-Source Contributor  
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## Summary

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A Computer Science undergraduate with hands-on involvement in collaborative engineering projects, including hackathon finalist builds and production-grade full-stack applications. Demonstrated ownership through open-source contributions and real-world deployments, with a strong foundation in data structures and backend systems.

## Skills

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### Technical

- C, Java, JavaScript, SQL; Data Structures, Algorithms, Object-Oriented Programming (OOP)
- MERN Stack (MongoDB, Express, React, Node.js), RESTful APIs, React Native; Git, Version Control (GitHub), Docker, Kubernetes, CI/CD foundations (GitHub Actions, Jenkins)

### Non-Technical

- Problem Solving, Critical Thinking, Design Thinking, Strategic Vision
- Leadership, Collaboration, Agile/Scrum, Time Management, Public Speaking

## Projects

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### KL Eats

- Campus food pre-ordering platform with mobile-first UI, real-time menus, secure Cashfree payments, and vendor admin portal. Now live on campus with 3 vendors, handling monthly order values around Rs. 60,000 after transitioning into a registered private limited company under Equitech Lab.
- Tech Stack: Next.js 15, React 18, TypeScript, Tailwind, shadcn/ui, Node.js, Express, MySQL, Redis

### FaceAttend

- Android-based face recognition attendance system with modular mobile client, backend API, and advanced FaceNet-powered Python service ensuring secure and fast recognition. Developed the project for CreovSys as part of a professional collaboration.
- Tech Stack: React Native (Expo), TypeScript, Node.js, Express, MongoDB, Flask, facenet-pytorch, TensorFlow.js

### KarmaSync

- Full-stack Agile project management platform with personal and collaborative projects, Kanban boards, sprint planning, user stories, role-based task assignment, and email-based authentication and notifications.
- Tech Stack: MERN (MongoDB Atlas, Express.js, React, Node.js), JWT, Email Services (Gmail SMTP)

## Education

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K L E F Deemed To Be University – B.Tech CSE (2023—2027) — GPA: 9.40/10 — Vijayawada, India  
Sunabeda Public School – Class XII (ISC, 2021—2023) — GPA: 8.50/10 — Sunabeda, Odisha, India  
Sunabeda Public School – Class X (ICSE, 2020—2021) — GPA: 9.35/10 — Sunabeda, Odisha, India

## Certifications

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MongoDB Associate Developer | AWS Cloud Practitioner | GitHub Foundations | Salesforce AI Associate

## Patents & Publications

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- **Biometric-based Voting System with Multi-layer Authentication** — IN202541073801 (Aug 2025). Invented a multi layer biometric voter authentication system to prevent impersonation and improve election transparency.
- **DigiChit : Automated Chit Fund Processing System** — IN202541098116 (Nov 2025). Developed a chit fund processing system integrating rule-based mandate verification, fraud-detection logic, and compliance automation.

## Achievements

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- Contributed to 9+ open-source repositories on GitHub through issue resolution and feature development.
- Contributed to open-source localization and open-data enrichment with SwechaAP across OpenStreetMap, Wikipedia, and Weblate for regional-language accessibility.
- **Hackathons & Competitions:** Finalist, Build for Bharat Hackathon; Semi-finalist, Code for Bharat Season 2; Top 15, CodeRush Competitive Programming Challenge (IIITM Gwalior) — Team Code4Cause.
- Competitive programming: 2-star rating on CodeChef.