B Suraj Patra

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

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

Skills

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

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

Projects

KL Eats
- Designed and deployed a campus-scale food pre-ordering system with mobile-first UI, vendor admin portal, finance portal for settlement tracking and reconciliation, and secure Cashfree payment integration; currently live with 3 vendors and handling Rs. 1,00,000 monthly order volume after incorporation under Equitech Lab Pvt. Ltd.
- Tech Stack: Next.js 15, React 18, TypeScript, Tailwind, shadcn/ui, Node.js, Express, MySQL, Redis

FaceAttend
- Architected a kiosk-grade face recognition attendance platform with a modular mobile client, Web ERP, REST API backend, and a dedicated FaceNet-powered Python service using 512-D vector embeddings, secure Android kiosk mode, and WebSocket-based sync for real-time attendance and proxy prevention, developed in collaboration with Creovsys Solutions India Pvt. Ltd.
- Tech Stack: React Native (Expo), React (Vite), TypeScript, Node.js, Express, MongoDB, Python, Flask, FaceNet (facenet-pytorch), Socket.io, JWT

DigiChit
- Built a secure digital chit fund platform enabling transparent transactions, digital ledgers, KYC verification, multilingual notifications, and streamlined group management to modernize traditional chit workflows.
- Tech Stack: React (Vite), Node.js, Express.js, MongoDB, Razorpay

Education

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

MongoDB Associate Developer | AWS Cloud Practitioner | GitHub Foundations

Patents & Publications

- **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

- 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: CodeChef rating 1500+ and LeetCode rating 1600+.