B Suraj Patra

B.Tech CSE Student | Software Engineering & Full-Stack Development | Open-Source Contributor
ankitsuraj1111@gmail.com | +91 8763232589 | Vijayawada, India
bsurajpatra.me | linkedin.com/in/b-suraj-patra | github.com/bsurajpatra

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; 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

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 an Android-based face recognition attendance system with a modular mobile client, REST API backend, and a dedicated FaceNet-powered Python service using 512-D vector embeddings for secure and low-latency identity verification, developed in collaboration with CreovSys.
- Tech Stack: React Native (Expo), TypeScript, Node.js, Express, MongoDB, Flask, facenet-pytorch, TensorFlow.js

KarmaSync
- Built a full-stack Agile project management system supporting personal and collaborative projects, sprint planning, Kanban workflows, user stories, role-based task assignment, and stateless JWT authentication with email-based notifications.
- Tech Stack: MERN (MongoDB Atlas, Express.js, React, Node.js), JWT, Email Services (Gmail SMTP)

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 | Salesforce AI Associate

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+.