

SAKSHAM

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SDE-1 — Full-Stack Engineer • Backend Engineer • AI/ML Integration • Production Deployment on AWS

Profile

Backend-focused engineer with production experience shipping scalable APIs, real-time systems, and cloud infrastructure end-to-end. I've independently built and deployed full products — backend, mobile app, and infra — as a sole developer, with a strong grasp of system design, authentication, low-latency pipelines, and CI/CD. Looking for a backend or full-stack role at a product-driven team where I can take ownership, move fast, and build things that matter.

Technical Skills

Backend: Node.js, NestJS, FastAPI Express.js, REST APIs, WebSockets (Socket.io), Rate Limiting, JWT, OAuth2.0, FFmpeg

Frontend: React.js, Next.js, TypeScript, Docusaurus, Responsive UI

Databases: PostgreSQL, MongoDB, MySQL — schema design, indexing, query optimisation

Languages: JavaScript, TypeScript, Python, Dart, C, C++

DevOps / Cloud: AWS (EC2, S3, RDS), Docker, CI/CD, GitHub Actions, Linux server management

AI / ML: TensorFlow, PyTorch, Scikit-learn, OpenCV, Computer Vision, LLM Integration

Concepts: System Design (LLD/HLD), DSA, Multithreading, Distributed Systems, DBMS

Experience

Paysecure

April 2025 – Present

SDE-1 (Full-Stack Engineer)

Jaipur, Rajasthan

- Engineered production-grade IBAN-based payment backend — secure REST APIs, input validation, and rate limiting handling real-time transaction flows.
- Integrated an ML-based fraud detection pipeline into the transaction flow, flagging suspicious patterns with 94.3% precision, reducing fraudulent transactions by 38%, and saving an estimated \$12K/month in chargebacks.
- Architected and deployed full-featured developer documentation portal (Merchant Guide) in Docusaurus + React — reducing developer onboarding time by 30%.
- Refactoring core dashboard: Migrating code to TypeScript with unit tests and ESLint-enforced code quality, owning end-to-end feature delivery from API to UI.

Metalixia (dashboard.metalixia.com)

Freelance Full-Stack Developer

Remote

- Sole developer: architected and shipped internal employee management dashboard — owning backend, frontend, infra, and deployment with zero downtime since launch.
- Built NestJS REST API backend with RBAC for 6+ user roles, JWT auth, and PostgreSQL schema design with optimized queries.
- Developed cross-platform Flutter mobile app consuming the same backend APIs — delivering a native-feel experience on both iOS and Android for on-the-go employee management.
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ESCORTS KUBOTA LTD

Jan 2025 – April 2025

AI/ML Engineering Intern

Faridabad, Haryana

- Built real-time deep learning model for circlip defect detection on assembly lines — 91.1% mAP, replacing manual QC and contributing to 3L+ in cost savings.
- Developed PyQt5 GUI integrated with Mitsubishi PLC via MC Protocol; MySQL-based analytics logging for production managers.
- Optimised inference pipeline for edge deployment, reducing detection latency to match real-time assembly line speeds.

Projects

School Admin Dashboard | [React.js](#), [Node.js](#), [Express.js](#), [MongoDB](#), [Next.js](#), [JWT](#), [FFmpeg](#) | [GitHub](#)

- Designed secure 4-tier RBAC backend (Admin, Teacher, Student, Parent) with 20+ REST APIs for attendance, grading, and announcements — Express.js + MongoDB.
- Built real-time FFmpeg (HLS) video streaming pipeline for live classes and playback with Socket.io push notifications — zero third-party services.

Education

J.C. Bose University, YMCA

July 2025

Bachelor of Science in Robotics and Artificial Intelligence

Faridabad, Haryana

- Relevant Coursework:** DSA(C++), AI, ML, DL, Soft Computing, Kinematics of Robotics