

# NAYAN KATIYARA

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LinkedIn | GitHub | Portfolio

## SUMMARY

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Full Stack Product Engineer with experience building real-time industrial monitoring systems, AI-powered SaaS platforms, and scalable web applications for Fortune 500 manufacturing environments. Skilled in React, Next.js, TypeScript, Python, FastAPI, PostgreSQL, and distributed real-time architectures with a strong focus on performance, reliability, and developer experience.

## SKILLS

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<b>Frontend</b>	React.js, Next.js, TypeScript, JavaScript, Tailwind CSS, ShadCN UI
<b>Backend</b>	Node.js, Express.js, Python, FastAPI, Flask
<b>Databases</b>	PostgreSQL, MongoDB, Firestore, Supabase, ConvexDB
<b>Real-Time Systems</b>	WebSockets, ZeroMQ, Liveblocks, MJPEG Streams
<b>Cloud &amp; Tools</b>	Git, GitHub, CI/CD, Cloudflare, Clerk, AWS Lambda

## EXPERIENCE

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### AI4M Technology Pvt. Ltd.

Pune, India

#### Full Stack Developer

May 2025 – Present

#### Fortune 500 FMCG Client — Real-Time Monitoring Platform

Apr 2026 – Present

Onsite | Cavite, Philippines

- Selected for international onsite deployment to deliver a real-time monitoring platform supporting high-throughput manufacturing operations.
- Built a low-latency monitoring application using React, TypeScript, FastAPI, and PostgreSQL to process and visualize high-frequency telemetry data in real time.
- Developed operational dashboards integrating live video streams, telemetry visualization, downtime tracking, and system health monitoring.
- Debugged ingestion bottlenecks and optimized backend services and database workflows to improve reliability during continuous real-time telemetry processing.

#### Global Spirits Manufacturing Client — Digital Twin Platform

Jan 2026 – Mar 2026

Remote

- Built a full-stack digital twin dashboard enabling engineers to simulate and analyze process changes before plant execution.
- Developed phase-aware analytics dashboards with process simulation, AI-assisted anomaly detection, multi-version comparison, and automated phase detection across time-series datasets.
- Collaborated on integrating ML-powered prediction systems into production-facing workflows.

#### Fortune 500 FMCG Client — Production Operations Platform

Sept 2025 – Dec 2025

Onsite | Haridwar, India

- Selected as the only fresher for onsite deployment on a production-critical manufacturing monitoring system.
- Built real-time communication systems using React, Flask, WebSockets, and ZeroMQ for live operational monitoring.
- Collaborated with onsite operators and engineering teams to develop telemetry dashboards, reporting workflows, and production monitoring features.
- Reduced deployment time from 2 hours to 15 minutes by building an internal CI/CD pipeline.

## OPEN SOURCE CONTRIBUTIONS

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**Supabase** | Open-source Firebase Alternative (75K+ Stars)  
GitHub Repository

- Improved developer onboarding by implementing proactive validation for misconfigured authentication redirect settings inside Supabase Studio.
- Added contextual warnings preventing broken magic-link authentication flows during user invitations.

**Bruno** | Open-source API Client (25K+ GitHub stars)  
GitHub Repository

- Implemented RFC 7231 compliant redirect handling by stripping sensitive authentication headers during cross-domain redirects.
- Fixed multipart form parsing issues causing data loss in complex request payloads and added 169 automated test cases covering edge cases.
- Built collection sorting functionality with drag-and-drop ordering using Electron, React, and Redux.
- Resolved application crashes during file imports through defensive validation and expanded automated test coverage.

## PROJECTS

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**Collaborix** | Next.js, Firestore, Cloudflare Workers, OpenAI, Liveblocks

- Built a real-time collaborative document platform supporting concurrent editing, live cursors, AI assistance, and multilingual translation workflows.
- Developed scalable serverless APIs handling 100+ requests per second with role-based permissions and real-time synchronization.
- Implemented low-latency collaborative editing systems with real-time synchronization handling, session recovery, and stable multi-user state management.

**CreatorsBrain** | Next.js, ConvexDB, OpenAI, Clerk

- Developed an AI-powered SaaS platform helping creators generate video titles, scripts, and thumbnails from long-form video content.
- Built multi-stage AI processing workflows with intelligent caching systems reducing API costs by 60%.
- Implemented subscription management, feature gating, and usage-limiting systems for paid SaaS plans.

**AutoGitSafe** | Flask, React, WebSockets

- Built an automated GitHub backup platform with live monitoring dashboards and real-time repository synchronization tracking.
- Developed scheduling and monitoring workflows for automated backup execution, recovery handling, and long-running service reliability.
- Managed automated backup operations across multiple repositories with high-success execution reliability.

## EDUCATION

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**Bachelor of Technology in Artificial Intelligence and Machine Learning**

May 2025

University of Pune

CGPA: 7.90

## CERTIFICATIONS & PUBLICATIONS

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- Publication: "Automated Result Analysis Using Python and Streamlit" – International Journal of Data Science and Analytics (IJDSA) (May 2025)
- Publication: "Voice Controlled Car Using Arduino-Uno, Bluetooth Module and Ultrasonic Sensor" – International Journal of Innovative Research in Technology (IJIRT) (June 2023)
- Blockchain Basics — Cyfrin Updraft
- SQL and Relational Databases 101 — IBM Cognitive Class