

Samyak Sargam Khatua

Senior Full Stack Engineer

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EXPERIENCE

- Luminous Power Technologies (P) Ltd** Gurugram, India (Hybrid)
Senior Full Stack Engineer Jan 2025 – Present
 - Designed an enterprise **multi-tenant IAM service** with hybrid RBAC, tenant isolation, audit logging, and Redis permission caching, **reducing database load by 82%**.
 - Engineered a high-throughput IoT event processor using **Azure Event Hub** to ingest and transform **6M+ device packets per day**, optimizing latency through asynchronous, partition-aware processing, consumer parallelism, batch tuning, and checkpoint optimization.
 - Architected an event-driven notification service using Azure Event Hub, consumer groups, retries, a DLQ, and idempotent consumers to reliably deliver **200K+ daily notifications** and **300K+ monthly messages**.
 - Automated **Helm-based deployments on AKS** through Azure DevOps CI/CD pipelines, enabling rolling releases, environment-specific configuration, autoscaling, and secret management with Azure Key Vault CSI.
 - Engineered **25+ REST APIs** using Java, Spring Boot, Spring Security, Hibernate, and PostgreSQL for authentication, authorization, JWT validation, permission evaluation, and session management.
 - Designed **fault-tolerant message-processing pipelines** using retries, Event Hub checkpointing, a DLQ, idempotent consumers, and deduplication to prevent duplicate ingestion.
 - Developed a data-intensive **Angular operations dashboard** and improved real-time frontend performance through lazy loading, API prioritization, and efficient data fetching.
 - Leveraged **GitHub Copilot, Claude Code, and ChatGPT** across implementation, debugging, refactoring, reviews, documentation, and technical research while maintaining production-quality standards.
- Self-Employed** (Remote)
Freelance Software Engineer Jan 2022 – Dec 2024
 - Architected and developed a **multi-tenant ERP platform** for last-mile delivery operations, supporting the lead-to-conversion lifecycle across sales, marketing, HR, payroll, commission, and slab management.
 - Designed **fine-grained RBAC** with secure authentication and authorization across ERP modules, ensuring role-specific access for business operations and administrative workflows.
 - Integrated **Razorpay, Axis Bank, and ICICI Bank payment gateways**, securing API requests and responses with hybrid encryption for reliable transaction processing.
 - Built a high-traffic VSL landing page serving **400K+ monthly visitors**, using chunked progressive video streaming and **Cloudflare Workers** to improve load performance, lead capture, and conversion.
 - Delivered end-to-end applications using **React, Node.js, TypeScript, and PostgreSQL** for logistics, transport, and business clients, owning development from solution design through deployment.

PROJECTS

- Switchboard - Intelligent LLM Model Router** GitHub Link
Python, FastAPI, PostgreSQL, Redis, Docker, Kubernetes, Prometheus, Grafana
 - Built an **ML-based multi-provider LLM router** that selects models per query by balancing response quality, cost, and latency.
 - Developed an **offline evaluation and continuous-learning pipeline** using automated scoring, shadow traffic, PostgreSQL, and scheduled retraining.
 - Implemented circuit breakers, retries, fallbacks, **Redis semantic caching**, and OpenTelemetry observability with Prometheus and Grafana.

SKILLS

Backend: Java, Python, Spring Boot, Spring Security, Hibernate, REST APIs, Microservices, JWT, Node.js, Express.js

Frontend: JavaScript, Angular, React.js, HTML, CSS, Tailwind CSS

Cloud & DevOps: Azure, AKS, Docker, Kubernetes, Helm, Azure DevOps, Azure Event Hub, Azure IoT Hub

Databases: PostgreSQL, Redis, SQL, MongoDB

Tools: Git, GitHub, Postman, Linux, GitHub Copilot, Claude Code, ChatGPT, AI-assisted coding, Agile, CI/CD

ACHIEVEMENTS

- **Luminous Tech-A-Thon 2023 Winner:** Won the IoT & ML track by developing a real-time solar panel monitoring solution integrating IoT devices for telemetry collection and solar production optimization.

EDUCATION

- **Institute of Technical Education and Research, Siksha ‘O’ Anusandha University** 2020 – 2024
B.Tech, Computer Science Engineering (CSE) CGPA: 8.94
- **Mount Litera Zee School** 2020
Central Board of Secondary Education (Class XII) Percentage: 87.7%

CERTIFICATIONS & COURSES

- **Event Driven Microservices with CQRS, Saga, Event Sourcing** Jun 2026
- **Agile Scrum Foundation** Mar 2023