

Sundaram Kumar Jha

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Enthusiastic Software Engineer skilled in cloud-native development, microservices architecture, AI agent systems, and full-stack applications. Proficient in optimizing workflows and building scalable solutions with Golang, TypeScript, and Next.js. Experienced in AI technologies including RAG systems, AI agents, and fine-tuning. Passionate open-source contributor dedicated to engineering efficient and high-impact software.

EDUCATION

Manav Rachna International Institute of Research and Studies

Bachelor of Technology in Computer Science | Graduation: June 2025

Delhi, India

CGPA: 8.0/10.0

TECHNICAL SKILLS

Programming Languages: Golang, Python, TypeScript, JavaScript, HTML/CSS

Frameworks & Libraries: Next.js, React.js, Express, Gin, Gorilla Mux, FastAPI, Tailwind CSS

AI/ML Technologies: RAG Systems, AI Agents, Fine-tuning, Small Language Models, Xenova Transformers

APIs & Protocols: RESTful APIs, gRPC, WebSockets, Socket.IO

DevOps & Cloud: Kubernetes, Docker, Terraform, Helm, GitHub Actions, AWS (RDS, ECR), Google Cloud (GCR), Azure (ACR), DigitalOcean, Civo Cloud

Databases: PostgreSQL, Drizzle ORM, Supabase

Architectures: Microservices, Cloud-Native, Layered Architecture

PROFESSIONAL EXPERIENCE

Software Developer | Synapsis Medical Technologies

Feb 2025 – Jul 2025

- Developed and integrated real-time communication features for a logistics platform, enabling live data synchronization between drivers and administrators to optimize oil industry workflows.
- Engineered a responsive, full-stack web application using TypeScript, Next.js, and Tailwind CSS, featuring distinct portals for drivers and administrators to streamline operational management.

Golang Developer | CloudDrove

Oct 2024 – Feb 2025

- Architected and developed "Smurf," a unified DevOps CLI tool consolidating Docker, Helm, and Terraform commands to reduce multi-platform deployment time by 40%; implemented secure multi-cloud registry integration with ECR, GCR, and ACR, accelerating container image management by 60% with zero security incidents.
- Engineered AWS Cost Optimization Calculator integrated with RDS and S3, delivering average annual client savings of \$8,000 and boosting lead conversion by 35%; maintained and optimized real-time backends and CI/CD pipelines, cutting software shipping time by 20%.

PROJECTS

RAG System | Node.js, Express, Socket.IO, Xenova Transformers, Groq API | [Link](#)

- Developed a production-ready Retrieval-Augmented Generation system enabling users to upload PDFs, ask questions, and receive streaming answers with source citations using local embeddings for privacy and cost-efficiency.
- Engineered real-time streaming response system with Socket.IO for instant feedback, integrated Xenova Transformers for fast local embeddings, and connected Groq API for high-quality LLM responses with citation tracking.

Scalable Distributed Cache | Golang, Consistent Hashing, gRPC | [Link](#)

- Developed a production-ready distributed cache in Go using advanced consistent hashing with virtual nodes for load distribution, implementing multiple eviction policies (LRU, LFU, TTL, Random), data compression via GZIP, and configurable replication strategies (ONE, QUORUM, ALL) for high consistency and fault tolerance in cluster environments.
- Integrated persistence with Write-Ahead Logging (WAL), snapshots, and automatic recovery; added comprehensive monitoring via Prometheus metrics, security features including API key authentication and TLS encryption, and cluster management with leader election, gossip protocol, and health monitoring to ensure scalability and reliability.

N8N for Github | TypeScript, Vite, Node.js, Express, WebSockets | [Link](#)

- Developed an n8n-inspired automation platform for GitHub, enabling real-time workflows for issues, pull requests, and releases with operations including commenting, labeling, editing, closing/deleting, and adding collaborators/reviewers using a visual canvas-based builder.
- Implemented real-time synchronization with GitHub via webhooks and REST API, integrating triggers for repository events and actions for notifications, ensuring seamless DevOps automation and scalable backend with Node.js, Express, and Supabase.

ACHIEVEMENTS & CERTIFICATIONS

Published Researcher: Co-authored research paper "Fuzzy Logic Method to Solve Traffic Congestion," published in the IEEE AutoCom 2024 conference proceedings.

Open Source Contributor: Contributed 10+ pull requests during HacktoberFest (2023, 2024) and maintain 6+ open-source projects with over 5,000 combined GitHub stars