Sundaram Kumar Jha

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Enthusiastic Software Engineer skilled in cloud-native development, microservices architecture, and full-stack applications.Proficient in optimizing workflows and building scalable solutions with Golang, TypeScript, and Next.js.Passionate open-source contributor dedicated to engineering efficient and high-impact software.

Education

Manav Rachna International Institute of Research and Studies | Delhi, India
Bachelor of Technology in Computer Science | Graduation: June 2025 *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, Tailwind CSS
- DevOps & Cloud: Kubernetes, Docker, Terraform, AWS (RDS, ECR), Google Cloud (GCR), Azure (ACR)
- Databases: PostgreSQL, MongoDB
- 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 AWS ECR, GCP GCR, and Azure 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

Scalable Distributed Cache | Golang, Consistent Hashing | 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 | Vite, Node/Express.js , 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.

Blog Site Generator | Next.js , Github Actions, Jekyll, Vercel| Link

- Developed a blogging platform with GitHub OAuth integration, enabling users to sign up using their GitHub account and auto-generate personalized blog sites powered by their repositories as a database.
- Implemented CI/CD using GitHub Actions, automating blog builds and deployments so that new blog entries added to the repository are instantly published without manual intervention.

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 4 open-source projects with over 5,000 combined GitHub stars.