

# Hariharen S S

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*Software Engineer with 3+ years of experience building and automating microservices and enterprise-grade cloud infrastructure at IBM Cloud. Proficient in Go, Python, Docker, and Kubernetes, with a track record of optimizing system reliability and performance through robust System Design. Complemented by a strong background in full-stack Web and Mobile development.*

## EXPERIENCE

### Tata Consultancy Services

July 2022 – Present

*Cloud Software Engineer – Client: IBM Cloud*

*Bangalore, Karnataka*

- Architected a Python-based Kubernetes CLI to automate large-scale distributed network topology orchestration, replacing manual setup with a parallelized resource management system.
- Reduced testing cycles by 95% (slashing setup time from hours to minutes) and integrated debugging utilities, leading to adoption across multiple teams for network CRDs validation.
- Engineered a native garbage collection system in Go to replace brittle legacy scripts, ensuring deterministic resource cleanup on enterprise infrastructure.
- Reduced orphaned object accumulation to near-zero and cut maintenance overhead by 90% through a controller-native solution, guaranteeing strict resource compliance.
- Led the production migration from Mezmo (LogDNA) to IBM Cloud Logs (ICL), standardizing logging pipelines, improving alert reliability, and reducing operational costs across environments.
- Strengthened overall system stability and reliability by defining consistent observability standards including alerts, metrics, and runbooks – and resolving critical bugs and runtime panics across key components.

### Halcyon

March 2020 – June 2022

*Co-Founder & Lead Developer*

*Coimbatore, Tamil Nadu*

- Co-founded a freelance agency and delivered over 5+ production-grade solutions for clients and local businesses, managing the complete SDLC for projects ranging from mobile apps and marketing sites to full-stack inventory and billing systems.

## EDUCATION

### Coimbatore Institute of Technology

June 2019 – April 2022

*Bachelor of Engineering in Computer Science (CGPA - 8.7/10)*

*Coimbatore, Tamil Nadu*

### PSG College of Technology

June 2016 – April 2019

*Diploma in Electronics and Communication Engineering (CGPA - 9.5/10)*

*Coimbatore, Tamil Nadu*

## TECHNICAL SKILLS

**Languages:** Go, Python, JavaScript

**Backend & APIs:** gRPC, REST, Firebase, Supabase

**Cloud Platforms:** IBM Cloud, AWS, GCP

**CI/CD Tools:** Jenkins, Azure DevOps, Travis CI

**Container Management:** Docker, Kubernetes

**Version Control:** Git, GitHub, Azure Repos, GitLab

**Configuration Management:** Terraform, Ansible

**Databases:** SQL, MongoDB, PostgreSQL

**Frontend Frameworks:** React, Flutter, Next.js

**Monitoring:** Prometheus, Grafana

## CERTIFICATIONS & PUBLICATIONS

AWS Cloud Practitioner - **AWS**

Python Specialization - **Univ. of Michigan (Coursera)**

IBM Cloud Advocate V2 - **IBM**

AWS Fundamentals - **Coursera**

**Paper:** Deconstructing the Netflix Machine: A Case Study of Netflix's Production-to-Delivery Cloud Ecosystem – **SSRN, Sep 2025**

## PERSONAL PROJECTS

### AI Developer Tools

| *Go, TypeScript, VSCode API*

- Developed **LamaCLI**, an open-source CLI tool in Go for terminal-based AI interaction with local LLMs using Ollama. Published on npm and pkg.go.dev to facilitate broad developer access.
- Engineered **Localseek**, a privacy-first VSCode extension for offline AI chat via local LLMs, achieving **350+ downloads** by offering a secure, low-latency local alternative to cloud assistants.

### CLI & Automation Tools

| *Go, Python, FFmpeg*

- Created **GitSync**, an interactive TUI tool in **Go** to automate multi-branch synchronization and branch management. Streamlines upstream fetching and rebasing to reduce manual git operations.
- Developed **FFmpeg-this**, an open-source Python CLI for FFmpeg processing; published on PyPI with **3,000+ downloads**, simplifying complex media commands into a user-friendly CLI to manipulate media files.

### JobTrac

| *Next.js, Firebase, TypeScript*

- Architected **JobTrac**, a full-stack career management platform that replaces scattered spreadsheets and documents with a centralized command center for job application management.
- Implemented real-time data synchronization and analytics, providing users with a strategic, data-driven approach to application tracking, research, and interview prep.