

P S SREE HARSHA

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AI Software Development Engineer building production-grade AI systems, distributed backend services, & cloud-native platforms. Experienced across system architecture, and full-stack engineering, architecting resilient multi-agent orchestration and production RAG. Proven track record of delivering scalable solutions and driving measurable impact through autonomous AI workflows.

SKILLS

Programming Languages	Python, C/C++, Java, JavaScript, TypeScript, SQL
AI & Agentic Systems	LangChain, LangGraph, AutoGen, MCP, Azure OpenAI, LLMs, RAG
Backend Development	FastAPI, Flask, Node.js, Express.js, REST APIs, Microservices, OAuth2/JWT Auth
Frontend Development	React, Next.js, Redux, HTML/CSS, Tailwind CSS
Cloud & DevOps	Docker, Kubernetes, Terraform, AWS, Azure, Jenkins, Git, GitHub, CI/CD, Linux
Databases & Retrieval	MongoDB, MySQL, Redis, Neo4j, SQLAlchemy, NoSQL, Knowledge Graphs
Software Engineering	System Design, Distributed Systems, AIOps, Observability, Event-Driven, SDLC

EXPERIENCE

AI Software Development Engineer

Feb 2025 – Present

Hewlett Packard Enterprise (HPE)

Bangalore

- Engineered 7 production AI systems and distributed backend services at HPE Emerging Technologies, automating enterprise workflows across AI and cloud-native platforms.
- Developed AI-powered workflow automation and human-in-the-loop (HITL) capabilities integrating decision support into enterprise systems, reducing manual triage effort by 42%.
- Architected and delivered 8+ Kubernetes-native microservices and 16 modular AI orchestration services powering AI platforms for incident classification, automated generation of 450+ standardized documents, and RAG at scale.
- Designed MLOps pipelines for AI models across hybrid-cloud environments and automated infrastructure analysis, improving operational visibility and eliminating 14 engineering hours of manual analysis per week.
- Modernized legacy enterprise applications by migrating 16 backend services and databases to containerized, cloud-native architectures, standardizing deployment, observability, and rollback across the production environments.
- Architected and delivered AI-enabled platforms across 4+ HPE Business Units, applying modern cloud-native, DevOps, platform engineering, and distributed-systems practices, contributing to **HPE OneAI** initiatives.

Full Stack Software Development Engineer (SDE)

Jun 2023 – Jan 2025

GTM4Health

Bangalore

- Engineered and deployed 12 microservices for an ERP platform, improving customer satisfaction by 70% & conversion rates by 20% through application optimization; recognized by the Government of India for key CSR feature.
- Directed development of an end-to-end MERN [B2B SaaS Platform](#) with the CEO, powering intelligence, analytics, administration, and ERP workflows for 500+ healthcare organizations.
- Spearheaded development of 24 features, driving 3× user engagement with secure JWT-authenticated sessions.
- Orchestrated 750+ Continuous Integration/Continuous Deployment (CI/CD) deployments using Vercel automation; improved API response performance by 60% through pagination and reduced page-response latency by 40%.
- Led cross-functional development of a resilient REST API using Agile and DevOps practices, enabling frequent production releases and contributing to an internship extension from 3 to 15 months.
- Built a scalable admin portal with user management, analytics, customized access for subscription model. Designed a user portal for market insights & analyzed real-time sales tracker, refined decision making for healthcare centers.

SELECT PROJECTS & PUBLICATIONS

HPE OpsNexus - Enterprise Intelligence Mesh, HPE Operations [HPE FOCUS AI Ideathon Winner](#), 2026

- Architected a 6-layer agentic AI platform federating **15 enterprise systems** into knowledge graph and operational memory, enforced calibration (**ECE $\leq$ 0.10**), reduced **65% of engineering effort** for targeted workflows.
- Designed a decision-intelligence layer on graph reasoning & **Azure AI Search**, emitting **explainable, confidence-scored** impact predictions; gated 8-week pilot achieved **40% faster decisions**, **60% less manual analysis**.

RapidDoc AI - Multi-Agent Documentation Generation System [HPE DT&A Digithon Runner-Up](#), 2026

- Architected a **multi-agent** platform transforming enterprise codebases into HLDs, developer guides, SOPs & user manuals, grounding every claim in **deterministic static analysis** of ASTs, dependency graphs & call relations.
- Built async **LangGraph** orchestration fanning agents across repositories in parallel to scale monolith analysis, auto-rendering **Mermaid.js architecture diagrams** and shortening first-day onboarding ramp for new engineers.

Hexus : Smart Log Manager - AI-Powered Enterprise Observability Platform

- Engineered a multi-tenant observability platform on **FastAPI/React/SQL** unifying log ingestion, **ML anomaly detection** & semantic retrieval to drive AI-assisted root-cause investigation across 8+ enterprise products.
- Secured it for regulated tenants with **PostgreSQL Row-Level Security**, Keycloak OIDC SSO, automated **PII anonymization** pipelines & Docker/Kubernetes deploys, enforced tenant data isolation with RBAC.

Agentic AIOps Blueprint - Infrastructure Documentation System

- Designed an agentic AIOps platform that parses **Terraform & Kubernetes manifests** into **ITSM-compliant LLDs**, SOPs & runbooks, replacing hand-written ops documentation that constantly drifts from live infrastructure.
- Paired deterministic infra parsing with LLM-assisted authoring so generated LLDs stay traceable to the real resource graph, folding documentation into CI so ops handover artifacts **regenerate on every infrastructure change**.

Human Resources Blockchain Intelligence Recommendation System (HRBIRS) [Publication](#), 2025

- Led research as **Principal Author**, tailored a blockchain-based recruitment system using Ethereum, Solidity Proof of Stake (PoS), ensuring secure, immutable data management & transparency in hiring workflows approved by HR.
- Implemented a hybrid recommendation engine that integrated TF-IDF vectorization and cosine similarity, achieved 85% precision. Deployed smart contracts to verify applicants and facilitate job postings, ensuring data integrity.

Distributed Software Defined Network [DSDN] IEEE Kalpana 30Hr Hackathon, Top 8 of 200+ — [GitHub Link](#) Built a Distributed SDN model with an accelerated Raft consensus algorithm, scaling protocols in distributed systems.

ACHIEVEMENTS & CERTIFICATIONS

- Completed AWS Educate: Getting Started with Compute, Networking, Serverless, and Databases [Credly](#)
- Top 4 in Information Security Digital Forensics & Cyber Resilience CTF; #60 global in Nexus CTF of 500+ teams
- Completed AWS APAC Solutions Architecture Virtual Experience Program [Forage](#)

EDUCATION

Bachelor of Technology in Computer Science & Engineering, PES University Oct 2021 - Jun 2025
GPA: 8.32, DAC Scholarship *6 times* - Relevant Coursework: Data Structures, Algorithms, Cloud Computing, ML, Database Management Systems, Networks, Object-Oriented Design & Analysis with Java, Cryptography, Blockchain.

LEADERSHIP ROLES & COMMUNITY

- Head of Event Management, Shunya - Hosted 4 hackathons, mentored 400+ team, deployed club sites.
- Python Course Instructor, Dhruva PESU - Mentored 14+ students via a Python workshop & project coursework.
- Technical Lead, AI-ML Club - Curated challenges for datathons and addressed challenge bank for 24Hr-Datathon.
- **Intern** at Hamari Pahchan [NGO]. Lead & Evaluated a design team in [Digital Media Content](#), Social Engagement and audited [Websites](#) for a quantified active user engagements, promoted to 2nd term for constructed deployment.