

HARI HARA BUDRA P

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PROFESSIONAL SUMMARY

Software Engineer with a B.Tech in AI & Data Science, specialized in building scalable distributed systems and high-concurrency applications. Proficient in **Python, JavaScript and Java** with a strong foundation in **Data Structures, Algorithms, and System Design**. Experienced in optimizing multi-tiered architectures and automating complex workflows to drive measurable engineering efficiency.

TECHNICAL SKILLS

- **Languages:** Python, JavaScript (ES6+), Java, SQL.
- **Core CS Fundamentals:** Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), Operating Systems (OS), DBMS, Computer Networks (CN), Complexity Analysis.
- **Backend & Systems:** FastAPI, Node.js, Express.js, Django, REST APIs, Microservices, Rate-limiting.
- **Frontend & Databases:** React.js, Tailwind CSS, PostgreSQL, MongoDB.
- **Cloud & Infrastructure:** AWS (S3, Lambda), Docker, Redis (Caching), Git, CI/CD Pipelines.

PROFESSIONAL EXPERIENCE

SYSTITSOFT SOLUTIONS | *Software Developer Intern*

Jul 2025 – Dec 2025

- Led the end-to-end development of production-quality web applications using **React.js** and **FastAPI**, architecting scalable frontend components and modular backend services to meet complex software requirements.
- Engineered core product features and optimized application state management, resulting in a **30% increase in overall system throughput** and significantly improved user responsiveness through efficient data-fetching patterns.
- Collaborated with senior engineers in a **Hybrid Agile/Scrum** environment, participating in daily stand-ups and code reviews to ensure all deliverables adhered to high-quality software engineering standards and best practices.
- Performed **rigorous debugging, troubleshooting, and unit testing** across the full stack to identify and resolve software defects, ensuring high system reliability and seamless performance during the final deployment phase.

ZOHO CORPORATION (MANAGEENGINE) | *Software Developer Intern*

Apr 2025 – Jun 2025

- Collaborated with a cross-functional team to design and build an internal productivity tool using **Java** and **PostgreSQL**, automating database pre-population to eliminate manual data entry errors for engineering teams.
- Optimized backend query performance and refined relational database schema design, achieving a **40% reduction in latency** for data-intensive operations through efficient indexing and query restructuring.
- Diagnosed and resolved architectural bottlenecks in a multi-tiered system, ensuring high data consistency and system reliability across various feature modules during the integration phase.
- Created and maintained technical documentation and Git repositories for team-wide use, ensuring seamless knowledge transfer and strict adherence to internal coding standard compliance.

KEY PROJECTS

ApplyVortex - Distributed Automation Ecosystem

GitHub

- Accomplished high-volume task orchestration by architecting a **Distributed Agent-Server system** using **FastAPI** and **Redis** within an **Agile development cycle**, measured by the successful handling of concurrent asynchronous workloads.
- Integrated a local LLM (Qwen 2.5) for real-time resume matching, achieving **sub-second processing speeds** by performing **rigorous debugging and unit testing** to ensure architectural stability and 99.9% system uptime.

CloudDrive - AWS-Powered Storage Platform

GitHub

- Engineered a secure cloud storage solution utilizing **Node.js** and **AWS S3** pre-signed URLs, which **offloaded 100% of file transfer traffic** from the application server to the cloud provider.
- Optimized file retrieval and directory traversal speeds by **35%** through the implementation of a nested parent-child indexing schema in **MongoDB**.

MeasureCo - Serverless Assessment SaaS

GitHub

- Developed a scalable code execution engine using **AWS Lambda** and **Docker**, allowing 100+ concurrent users to compile and run code in isolated, secure environments.
- Reduced manual reporting and evaluation time by **30%** by centralizing test management and automating grading workflows via a serverless microservices architecture.

EDUCATION & ACHIEVEMENTS

Bachelor of Technology, AI & Data Science | Rathinam Technical Campus | CGPA: 7.87

2025

- **Volkswagen iMobilithon 2024:** Shortlisted among Top 15 ideas for innovative technical system design.
- **PSG iTech Hackfest 2024:** Secured **Runner-up** for building a functional prototype under 24-hour constraints.