Prakash Dass R

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Professional Summary

Final-year Artificial Intelligence & Machine Learning student with a strong passion for building software systems. Experienced in developing high-performance servers, distributed architectures, and practical AI applications in Python. A proactive learner who actively participates in workshops and hackathons, with proven ability to collaborate in teams and deliver well-engineered, real-world solutions.

Technical Skills

- **Languages:** C++, Python, SQL
- **Backend & Databases:** Django, REST APIs, MySQL (Query Optimization), Redis (Caching)
- **Systems & Concurrency:** Concurrent Programming, Socket Programming (TCP/IP)
- **Tools & Concepts:** Foundational ML/DL Algorithms, Docker, Git, Cloud (Basics)

Experience

Machine Learning Trainee (Virtual) *Infosys Springboard* Batch 1, 2024

- Completed an intensive 250+ hour ML training program, validated via two proctored examinations.
- Developed a KNN-based heart disease classifier as a capstone project, integrated with a Django app.
- Collaborated with a remote team of 4 members from across India to deliver the final project.

Freelance Developer Remote, 2023 – Present

- Built a full-stack Client Management System (MySQL) to automate administrative workflows.
- Integrated the Razorpay payment gateway and provided backend support for multiple client websites.
- Created several full-stack community apps, including a real-time treasure hunt and a voting platform.

Projects

Multiformat AI Intake System *Agentic AI, Python, LLM, AWS* Source Code

- Designed an intelligent pipeline using a custom LLM orchestrator to process and classify unstructured data.
- Implemented a chain of AI agents for intent classification and automated information extraction.
- Containerized the application with Docker and successfully deployed it to the cloud on an AWS EC2 instance.

Fault-Tolerant Distributed Server *Go, Systems Design, Concurrency* Source Code

- Implemented the Raft consensus algorithm from scratch in Go to build a fault-tolerant distributed system.
- Engineered core Raft mechanics for leader election, log replication, and automatic cluster failover.
- Designed a secure dual-port network architecture to isolate public client APIs from internal cluster RPCs.

High-Performance C++ HTTP Server *Socket Programming, C++* Source Code

- Architected a high-performance HTTP server from scratch in C++ using low-level socket programming.
- Implemented a thread pool-based concurrency model to efficiently handle thousands of simultaneous connections.
- Engineered a minimal routing engine with support for dynamic routes and static file serving.

Education

B.Tech, Artificial Intelligence & Machine Learning *Sri Shakthi Institute of Engineering and Technology* 2022 – 2026

- CGPA: 7.93 / 10.0
- **Relevant Coursework:** Data Structures, Algorithms, Object Oriented Programming, DBMS, Operating Systems

Achievements

- Placed as a Finalist (AI track) in National Hackathon 2025 among 200+ competing teams.
- Selected twice for Smart India Hackathon (2023, 2024) for developing impactful AI/ML prototypes.
- Awarded for being the "Most Interactive Participant" at multiple Google Developer Group (GDG) events for active community engagement.

Leadership & Community Involvement

Community Service Director & All Avenues Chair *Rotaract Club of SIET* 2023 – 2025

- Managed a team of 8 in the complete lifecycle of over 20 technical and community projects.
- Built and deployed custom web applications (e.g., Meme Royale) to increase event engagement.
- Directed project planning, task delegation, and communication for all major club initiatives.