
HRITHIK RAJ

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PROFESSIONAL SUMMARY

Results-driven backend SDE with 2.8 years of expertise in Golang and Python. Skilled in building Microservices with Docker and Kubernetes in Linux environments, optimizing performance, and enhancing scalability. Passionate about crafting efficient and resilient systems using best practices.

SKILLS

- Microservices Architecture: **Microservices, RESTful APIs, gRPC, Apache Pulsar, Prometheus, Elastic Search, Azure**
- Programming Languages: **Golang, Python**
- Containerization, Orchestration: **Docker, Kubernetes, Helm Charts, Ingress**
- Databases: **MongoDB, Oracle, Neo4j (Basics)**
- Subjects: **Data Structures and Algorithms, DBMS, OOPS and System Design**

WORK HISTORY

Software Development Engineer 2, 12/2024 - Current

AMD – Bengaluru, India

- **Middleware Development:** Maintained and enhanced middleware written in **Flask (Python)** for AMD's system-level testing framework, quickly adapting to a complex codebase with deep inheritance and intricate logic. Recognized by management for rapidly understanding and contributing to the system.
- **New SUT Platform Support:** Integrated **Quanta, CV, SMC** platform into the test infrastructure, expanding compatibility.
- **Feature Enhancements:**
- Configured **Proxmox VM** for running middleware servers and scale based on deployments
- Made changes for metrics display

Software Development Engineer 2, 08/2022 - Current

Oracle – Hyderabad, Telangana

- **Developed ServiceNow adapter** using **Java** and **Spring Boot** to automate ticket creation for Assurance events, ensuring real-time synchronization between ServiceNow and Unified Assurance, reducing manual intervention by **40%** and improving incident management efficiency.
- **Developed GNMI collector microservice** in **Golang** using the **gRPC framework** for secure device monitoring with **TLS encryption**, enhancing data security and real-time device insights.
- **Engineered high availability solution** by designing a reusable failover library in **Golang**, implemented across all microservices to ensure **database failover**, maintaining **99.99%** uptime and data consistency in distributed systems.
- **Integrated Prometheus metrics** into microservices for **enhanced monitoring**, enabling real-time performance tracking and proactive issue resolution, improving system reliability by **20%**.
- **Extended Discovery Service microservice** by adding MIST protocol support (**REST-based**) alongside **ICMP** and **SNMP** profiles, enabling the discovery of a wider range of devices and enhancing service flexibility.
- **Transitioned to Kubernetes Ingress controllers**, significantly improving load balancing, external access, and network security.
- **Diagnosed and eliminated memory leaks** in the Ping Poller **Microservice** using **Golang** monitoring tools, improving system stability and scalability by **40%**

Software Intern, 01/2022 - 06/2022

Oracle – Hyderabad, Telangana

- **Microservice Enhancements:** Contributed to FCOM processor **Microservice** by adding new processing capabilities, improving system efficiency and deployment via **Kubernetes**.
- **Proactive QA Testing:** Initiated and conducted QA testing for **Microservices**, identifying critical issues early and ensuring high-quality releases within **CI/CD** pipeline.

PROJECTS

Docker Monitoring System | *Golang, OpenAI API Docker Client* | [Github](#)

- Docker Monitoring System continuously **monitors Docker containers**.
- If a container fails, sends a notification to the user, retrieves the error logs and sends them to **OpenAI API** for analysis.
- OpenAI API then examines the logs, detects patterns or known issues, and returns potential fixes or troubleshooting steps helping **developers quickly diagnose** and resolve container issues.

SmartGpt | *Golang, OpenAI API, REST API, MongoDB, JWT, SQL* | [Github](#)

- Developed a chatbot over OpenAI API to provide **pay as you go model** instead of subscription-based model.
- Designed backend architecture in **Go**, implementing robust **token-based cost management** and automatic follow-up requests to ensure uninterrupted conversation flow.
- Integrated **MongoDB** to store and retrieve chat history, enabling features like seamless retrieval of older messages for user continuity. .

EDUCATION

B.TECH: ECE, 07/2022

Birla Institute of Technology - Ranchi, Jharkhand

GPA: 8.1

PROFILE LINKS

Solved **300+ DSA problems** across platforms:

GeeksForGeeks ([Link](#))

LeetCode ([Link](#))

HOBBIES AND INTERESTS

Content Creation: Share tutorials and insights on **Golang, Docker, Kubernetes, and Backend Engineering** with almost **20K followers** on Instagram ([@being_developer](#))