Sandhya Kumari

Software Engineer

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Professional Summary

Driven **Software Engineer** with a **growth mindset** and a strong foundation in **Distributed Systems**. Proficient in **C++, Java, Python**, and **Go/Rust (Basic)**. Experience designing **large-scale** cloud-native applications on **Azure**. Passionate about **Network Security** (Firewall, IDS/IPS), **High Availability**, and building **hyper-scale** products. Skilled in **monitoring and alerting**, **multi-threading**, and **L4-L7 filtering**. Ready to collaborate and innovate as a **Designated Responsible Individual (DRI)**.

Technical Skills

Languages	**C++**, **Java**, **Python**, C, SQL, Go (Basic), Rust (Basic)
Cloud & Network	**Azure Firewall**, **Distributed Systems**, **TCP/IP**, **L4-L7 filtering**, **Deep Packet Inspection (DPI)**
Infrastructure	Kubernetes, Docker, Terraform, **Monitoring & Alerting**, CI/CD (Azure DevOps/GitHub)
Core Concepts	**Multi-threading**, Asynchronous Programming, Data Structures & Algorithms, System Design
Security	**IDS/IPS**, **Threat Intelligence**, **Malware Protection**, DevSecOps, Identity & Access Management

Technical Experience

07/2025–Present — **Software Engineer Intern**, *DevOps Quest*, Azure Cloud Services
- **Distributed Systems:** Designed and built a **distributed** application hosted on **Azure**, utilizing **Application Load Balancing** constructs to handle high traffic scale.
- **Reliability (DRI):** Acted as a **Designated Responsible Individual (DRI)** for component reliability, implementing **monitoring and alerting** systems to detect degradation.
- **Security Integration:** Integrated **Azure Firewall** capabilities for **L4-L7 filtering** and **threat intelligence**-based protection against malicious sources.
- **Cloud-Native Design:** Leveraged **Azure** services and **Open Source** technologies (Docker/Kubernetes) to deploy a **scalable** and secure product.

07/2024–12/2024 — **Software Developer**, *FOODISTA*, High-Scale Performance
- **Performance Optimization:** Engineered a solution for **blazing fast performance**, optimizing data retrieval to handle concurrent requests from 1,000+ users.
- **End-to-End Ownership:** Owned the component **end-to-end**, from design to **testing** and deployment, ensuring timely execution of features with **high quality**.
- **Algorithm Design:** Applied strong **Data Structures and Algorithms** knowledge to solve complex "queue management" problems, improving system efficiency.
- **Collaboration:** Managed cross-team dependencies and collaborated with stakeholders to determine user requirements and drive the project plan.

Education

2022–2026 — **B.E. Computer Science (Specialization in DevOps)**, *Chandigarh University*, Punjab
CGPA: 7.65
Relevant Coursework: Distributed Systems, Computer Networks (TCP/IP), Operating Systems (Linux/Windows), Network Security.

2022 — **Intermediate (Class XII)**, *KV AFS High Grounds*, Chandigarh, *82%*

Academic Research & Projects

01/2023–03/2023 — **Research Analyst**, *Network Security & Threats*
- **Threat Analysis:** Analyzed mechanisms for **Malware Protection** and **Intrusion Prevention Systems (IPS)**, aligning with **IDS** concepts.
- **Security Protocols:** Researched **Deep Packet Inspection (DPI)** and transport security protocols to safeguard data in distributed networks.

Certifications & Interests

Certifications	Oracle Cloud Infrastructure Generative AI Professional
Interests	Cloud Networking, Distributed Services, Open Source Contributions, System Security