**VEERESH KOLIWAD**

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**SUMMARY**

Software Engineer with 3+ years of experience specializing in building and scaling resilient, high-performance distributed systems. Proven expertise in microservices architecture, cloud infrastructure, and ML-driven automation to enhance system reliability and efficiency. Passionate about SRE principles, performance tuning, and ensuring high availability.

**EDUCATION**

**Master’s in Computer Science** - Arizona State University, Tempe, AZ Dec 2025

**Bachelor’s in Computer Science** - RV College of Engineering, Bangalore, India May 2021

**EXPERIENCE**

**Associate Software Developer** Jul 2021 – Dec 2023  
*SAP LABS* Bangalore, India

* Engineered and deployed a critical purchase order microservice, automating workflows to process over 5K monthly orders with 99.9%+ uptime, which reduced manual processing time by 90% and minimized operational errors.
* Led the migration of legacy monolithic applications to a scalable microservices architecture on SAP Cloud, improving system resilience, enhancing scalability for peak loads, and cutting infrastructure costs by 20%.
* Optimized API response time by 30% using Redis caching, improving overall user engagement by 20%.
* Initiated and led a 4-member team to develop an ML-based bug prediction tool, creating a proactive monitoring system that automated issue detection and reduced reactive support tickets by 25%.
* Managed and deployed microservices using Docker and Kubernetes (K8s), leveraging Kafka for asynchronous communication and Elastic Search for logging and monitoring, ensuring high availability and performance.

**Research Assistant** Jan 2025 – Present  
*Arizona State University* Tempe, AZ

* Evaluated MiniLLM on benchmark datasets to explore trade-offs in LLM compression.
* Reduced inference latency by 45% using LayerDrop and pruning techniques, making compressed LLMs more practical for deployment.

**Software Development Intern** Feb 2021 – Jul 2021  
*SAP LABS* Bangalore, India

* Developed a Jira workflow gadget using JavaScript and HTML, used by 10+ teams to simplify ticket tracking.
* Built and deployed full-stack features using React and MongoDB on AWS, for SAP’s Bydesign module.

**PROJECTS**

**Elevv, AI Resume Builder** | *Python, FastAPI, Next.js, AWS, LLMs* Jun 2025 – Present

* Currently engineering a full-stack, multi-agent AI system to provide deep analysis of resumes against job descriptions, featuring a secure, decoupled microservices architecture.
* Implementing a sophisticated orchestration layer to manage a series of specialized AI agents that perform tasks from entity extraction to intelligent resume enhancement.

**Football Analysis System** | *Python, YOLOv8, OpenCV, KMeans, Optical Flow* Jun 2024 – Aug 2024

* Built a real-time player/ball detection system using YOLOv8, achieving 95% accuracy on Bundesliga datasets.
* Implemented KMeans clustering for team identification and optical flow for tracking player movements.

**RAG Chatbot** | *LangChain, Hugging Face, ChromaDB, Vector Search* Jan 2025

* Developed a context-aware chatbot using Retrieval-Augmented Generation (RAG) to integrate real-time data with LLMs.
* Optimized response accuracy by implementing vector search and data chunking in ChromaDB.

**SKILLS**

**Languages**: Python, C/C++, Java (Intermediate), SQL, JavaScript, HTML/CSS  
**Machine Learning**: NLP, Computer Vision, LLMs, Recommendation Systems  
**Tools**: Docker, Kubernetes, React, Kafka, Elastic Search, Redis, Git  
**Cloud & Databases**: AWS, SAP Cloud Platform, PostgreSQL, MongoDB  
**Methodologies**: REST APIs, Microservices, Distributed Systems, Agile, CI/CD  
**SRE & DevOps**: Linux/Unix Systems, Shell Scripting, Networking (TCP/IP), Monitoring & Alerting, CI/CD, Git