

Veeresh Koliwad

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SUMMARY

Software Engineer with 2.5+ years of experience building distributed backend systems and deploying scalable cloud solutions. Led ML-driven automation, improved API performance by 30%, and built microservices that cut order processing time by 90%. Passionate about system design, performance tuning, and real-world ML applications.

EDUCATION

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| Arizona State University <i>Master's in Computer Science</i> | Tempe, AZ Jan. 2024 – Dec. 2025 |
| RV College of Engineering <i>Bachelor's in Computer Science</i> | Bangalore, India Aug. 2017 – May 2021 |

EXPERIENCE

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| Associate Software Developer <i>SAP LABS</i> | Jul. 2021 – Dec. 2023 Bangalore, India |
| <ul style="list-style-type: none">Built a purchase order microservice for SAP ERP to automate manual workflows, reducing processing time by 90% for 5K+ monthly orders.Migrated legacy applications to SAP Cloud, cutting infrastructure costs by 20% and improving scalability.Optimized API response time by 30% using Redis caching, improving overall user engagement by 20%.Led development of a bug prediction tool with a 4-member team, reducing support tickets by 25%. | |
| Research Assistant <i>Arizona State University</i> | Jan. 2025 – Present Tempe, AZ |
| <ul style="list-style-type: none">Evaluated MiniLLM on benchmark datasets (OpenOrca, AlpacaEval) to explore trade-offs in LLM compression through knowledge distillation .Reduced inference latency by 45% using LayerDrop and pruning techniques, making compressed LLMs more practical for deployment. | |
| Software Development Intern <i>SAP LABS</i> | Feb. 2021 – Jul. 2021 Bangalore, India |
| <ul style="list-style-type: none">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

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| Football Analysis System <i>Python, YOLOv8, OpenCV, KMeans, Optical Flow</i> | Jun. 2024 – Aug. 2024 |
| <ul style="list-style-type: none">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.Applied perspective transformation to standardize camera angles across match footage. | |
| RAG Chatbot <i>LangChain, Hugging Face, ChromaDB, Vector Search</i> | Jan. 2025 |
| <ul style="list-style-type: none">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.Deployed the system with Flask API for seamless integration with frontend applications. | |

TECHNICAL SKILLS

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| 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 |