KAUSHAL NERKAR

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SUMMARY

AI and Software Engineer with 4 years of experience in cloud computing, DevOps, and backend development. Skilled in building automation pipelines, developing microservices, and optimizing cloud-based applications. Passionate about leveraging AI and cloud technologies to enhance operational efficiency and drive business impact.

TECHNICAL SKILLS

Programming: Java, Python, NodeJs, C, C++, JavaScript, SQL, HTML, CSS
Frameworks: Spring, Spring Boot, React, Django REST, Flask , FastAPI
DevOps Tools: GIT, Jenkins, Docker, Terraform, AWS, Kubernetes,
Certifications: AWS Certified Developer Associate, HashiCorp Certified Terraform Associate

WORK EXPERIENCE

Linvest21 Incorporated — Remote, New York , USA , Intern AI Engineer   September 2024 - Present

- Designed and implemented a data collection pipeline using Apache Airflow and AWS Lambda, automating financial data ingestion and enhancing real-time processing
- Developed an AI-driven chatbot with LangGraph and real-time voice capabilities, enabling natural language and speech interactions for investment insights
- Engineered the Investor Intelligence system by integrating market trends, stock data, and client insights with LangGraph and LangChain to support informed financial decision-making
- Built a scalable, modular architecture for Investor Intelligence, ensuring efficient data retrieval, processing, and AI-driven analysis for personalized financial insights

HSBC Software Development India — Pune, India , Senior Software Developer   July 2019 - July 2023

- Implemented and maintained CI/CD pipelines with Jenkins and Kubernetes, leveraging shell scripting for automation to streamline release processes and reduce deployment time by 75%
- Led cloud migration efforts by developing a one-click Node.js API migration utility, transitioning HSBC services from PCF to AWS (demonstrating equivalent cloud experience) and saving $1.3M in infrastructure costs
- Developed and maintained microservices using Java Spring Boot, enhancing business process automation and overall system efficiency
- Orchestrated scalable, highly available Kubernetes deployments to improve system fault tolerance
- Optimized application performance monitoring with Splunk, AppDynamics, and DataDog, reducing troubleshooting time by 30%
- Designed cloud connectivity patterns for AWS Aurora DB, improving API compliance and database integration efficiency
- Streamlined batch data processing by optimizing query execution and parallel processing in HSBC's Self-Compliance Tool, cutting processing time by 50%
- Inner-sourced cloud migration utilities across teams, increasing adoption and standardizing API deployment practices

PROJECT EXPERIENCE

Terraform Code Generator with AI & RAG   December 2024 - January 2025

- Developed an AI-powered Terraform code generator using RAG and LLMs, automating Infrastructure-as-Code (IaC) creation with real-time, context-aware generation
- Built a Streamlit frontend and FastAPI backend, integrating ChromaDB for vector-based retrieval and best practice driven LLM prompts to enhance accuracy

KubeControl App   January 2024 - March 2024

- Developed a containerized application deployment platform using EKS and Kubernetes, enabling scalable hosting and efficient management of diverse applications
- Built a React.js frontend with a Flask backend to interact with Kubernetes APIs, streamlining app deployment with a user-friendly UI and reduced deployment time

EDUCATION

Binghamton University, State University of New York   3.87/4.00
Master of Science in Computer Science   *August 2023 - May 2025*
Vellore Institute of Technology — Chennai, India   3.33/4.00
Bachelor of Technology in Computer Science & Engineering   *July 2015 - May 2019*