

# 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, 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**

**3.88/4.00**

*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*