



Professional Summary

Highly skilled Full Stack and AI Engineer with over 4 years of experience in **backend** and **full-stack** development, **DevSecOps**, and **AI** technologies. Proven expertise in developing and deploying microservices, designing cloud-native architectures, and integrating advanced AI solutions. Known for strong leadership abilities and hands-on technical proficiency across a broad range of technologies, with an aptitude for delivering high-performance systems and leading cross-functional teams to success. Adaptable, detail-oriented, and highly motivated to explore new challenges and technologies.

Experience

May 2024 – Present

Senior Full Stack & AI Engineer *IBM - India Systems Development Labs*

- Led the development of Proof of Concepts (POCs) for AI-based solutions using **IBM watsonx.ai**, enabling internal teams to adopt AI-driven tools that enhanced their operational efficiency by **20%**.
- Collaborated with **IBM Research** teams to implement, test, and train custom **Large Language Models (LLMs)** for internal use cases, significantly improving the quality of AI-driven decision-making processes.
- Spearheaded the deployment of microservices using **Python** and **Docker** across multiple container platforms, reducing the service downtime during deployment phases by **15%** and improving scalability by **30%**.
- Developed AI solutions for internal infrastructure teams, automating previously manual tasks and reducing turnaround times by **25%**, enhancing overall productivity.
- Coordinated with cross-functional teams across different geographies to drive complex AI adoption projects, consistently delivering results ahead of schedule.

Oct 2023 – May 2024

Senior Engineer *IndiGo - Lab37*

- Led the transformation of **5** legacy on-premises applications into cloud-native architectures, resulting in a **30%** reduction in infrastructure costs and a **20%** improvement in overall application performance.
- Conducted in-depth performance benchmarking for critical customer-facing applications using Locust and **JMeter**, identifying bottlenecks and implementing optimizations that boosted transaction processing speeds by **25%**.
- Designed and implemented a microservice-based framework for real-time ETA prediction for airport services, increasing customer satisfaction scores by **18%** through enhanced accuracy and reliability.
- Modernized various digital touchpoints for customer engagement at airports, which included integrating AI-driven features to provide real-time updates and navigation assistance, improving pre-boarding experience efficiency.
- Acted as a technical lead, overseeing a team of engineers in the development and deployment of high-performance applications, ensuring adherence to best practices and security protocols.

Oct 2020 – Oct 2023

Back-End Engineer *IBM - India Software Labs*

- Played a pivotal role in the development and integration of microservices for **IBM Cloud Security Advisor (now IBM Security and Compliance Center)**, enhancing the platform's ability to manage and address cloud vulnerabilities. This initiative led to a **15%** reduction in security incidents across **IBM Cloud** environments.
- Led a team of **4** in developing an **OpenShift Compliance Operator** integration module for **IBM Cloud Security and Compliance Center**, which reduced compliance check execution times by **10%**, improving auditing accuracy and efficiency.
- Collaborated extensively with **IBM Japan Research Labs** to integrate Vulnerability Advisor into **IBM Cloud**'s security suite, optimizing cloud security workflows and reducing vulnerability remediation time by **20%**.
- Contributed to the **IBM Cloud Event Notifications** project, architecting and implementing high throughput microservices that improved event notification delivery efficiency by **22%**, benefiting thousands of customers globally.
- Developed automated testing frameworks that increased unit test coverage for key microservices from **80%** to **95%**, ensuring greater system reliability and reducing production bugs by **30%**.
- Deployed services using **Docker** and **Kubernetes** in a **Red Hat OpenShift** environment, implementing CI/CD pipelines via **IBM Cloud OnePipeline**, which reduced deployment failures by **15%**.
- Pioneered efforts in performance benchmarking using **Locust** and **JMeter**, enhancing service response times by **15%** through targeted optimizations.

Jun 2019 – Aug 2020

**Software Engineer Intern *IBM - India Software Labs***

- Developed and maintained microservices for **IBM Cloud Security Advisor**, including writing and maintaining unit tests that increased test coverage to **95%**, ensuring robust and reliable system performance.
- Collaborated closely with senior engineers to integrate Vulnerability Advisor into **IBM Cloud** offerings, resulting in a **10%** reduction in customer-reported security issues during the beta phase.
- Deployed microservices using **Docker** and **Kubernetes** and played a key role in streamlining the deployment process using **Red Hat OpenShift**, reducing downtime by **20%**.
- Performed extensive benchmarking of microservice performance using **Locust** and **JMeter**, leading to targeted performance enhancements that improved service response times by **15%**.
- Assisted in bug-fixing and performance tuning, contributing to a **20%** improvement in the reliability and scalability of critical cloud security services.

**Education**

Aug 2016 – Aug 2020

**Bachelor of Technology (Honors) - Computer Science & Engineering**

Meerut Institute of Engineering & Technology (MIET),  
APJ Abdul Kalam Technical University  
**CGPA:** 8.0

**Skills**

- **Programming:** Java, JavaScript, Python, Golang
- **DevSecOps:** Docker, Kubernetes, Red Hat Openshift, IBM Cloud, AWS, Azure, GCP, Jenkins, SonarQube, SAST, DAST, GitHub Actions
- **Full Stack:** MySQL, PostgreSQL, MongoDB, ReactJS, Redux, HTML, CSS, Bootstrap, Redis, Elastic Search, IBM Cloudant
- **AI & ML:** RAG Pipelines, Conversational AI, Text Vectorization, LLMs/SLMs, GenAI-based Chatbots
- **Cloud Platforms:** IBM Cloud, AWS, Microsoft Azure, Google Cloud Platform
- **Tools:** Locust, JMeter, Snyk, OnePipeline, OpenShift Container Platform

**Publications & Articles**

- [Machine Learning Powered Compatible People Proposer Based On Personality Traits](#)
- [Building a Universal Generative AI Chatbot Solution: From Data Ingestion to Deployment](#)
- [Mastering Feature Engineering: Crafting Brilliance in Machine Learning 🚀](#)
- [Battle of Protocols: gRPC & Protobuf vs. REST & JSON Showdown! 🧠](#)
- [🔧 Level Up Your DevSecOps with Tekton: A Hands-On Guide](#)
- [Mastering JakartaEE \(JavaEE\): A Comprehensive Guide to Build a Feature-Packed REST Server](#)
- [Goroutines in GoLang: Hacks to Conquer Concurrency Like a Boss! 🧐](#)
- [🔗 Unraveling GitOps, DevSecOps, and TechOps: A Guide to Modern Tech Superpowers](#)
- [Choosing the Right Database for Your Project: A Developer’s Comprehensive Guide](#)

**References**

Available upon request

**Gaurav Goswami**  
9<sup>th</sup> October 2024