

VAIBHAV GAGNEJA

DevOps Engineer

📍 Punjab, India

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[LinkedIn](#)

🌐 [Portfolio](#)

TECHNICAL SKILLS

Cloud & Orchestration: Docker, Kubernetes (AKS), Azure, AWS, Microservices Architecture
CI/CD & Automation: GitHub Actions, Jenkins, Azure DevOps, Argo CD, GitOps, Shell Scripting
Infrastructure & Database: Azure SQL, MongoDB, PostgreSQL, Managed Identity, Key Vault
Scripting & Backend: Python, Java, Spring Boot, Spring Security
Test Automation: Selenium, TestNG, Cucumber, Postman, REST Assured

EXPERIENCE

PricewaterhouseCoopers (PwC)

March 2022 – August 2023

Associate 2

Bengaluru, India

- Implemented **Zero-Trust Security** architecture using Azure Entra ID (Managed Identity), enabling credential-free access to Azure Data Explorer and Key Vault, achieving zero security incidents.
- Architected a **Zero-Downtime deployment** strategy with context-aware routing, supporting 99.9% uptime for production deployments across 5 environments (Dev, QA, Staging, Prod).
- Automated incident management by integrating Centralized Alert Gateway (CAG) with ServiceNow, reducing manual ticket creation time by **80%** and MTTR by **40%**.
- Designed and deployed multi-tenant RESTful APIs supporting high-traffic streaming platforms (Peacock, SkyShowtime) using ASP.NET Core and Azure Table Storage.
- Optimized legacy workflows by migrating Excel VBA applications to C# .NET, exposing functionality via APIs to improve performance and maintainability.

PROJECTS

Cloud-Native Voting App Pipeline | Azure DevOps, Argo CD, AKS, Docker

- Architected a **GitOps** workflow using **Argo CD** to synchronize Kubernetes manifests, ensuring automated and consistent application state across clusters.
- Built a CI/CD pipeline in **Azure DevOps** to build Docker images and push to Azure Container Registry (ACR), reducing deployment capability time from hours to minutes.
- Deployed a microservices-based Spring Boot application to **Azure Kubernetes Service (AKS)**, utilizing Ingress controllers for efficient traffic routing.

Scalable Video-to-MP3 Microservices | Python, RabbitMQ, Kubernetes, MongoDB

- Designed an asynchronous event-driven architecture using **RabbitMQ** to decouple video processing from the API layer, improving system resilience under load.
- Containerized Python services using **Docker** and orchestrated deployments on **Kubernetes (K8s)** for auto-scaling capabilities.
- Integrated MongoDB for metadata storage and implemented JWT-based authentication for secure API access.

RESEARCH

ES-LSTM: Hybrid Model for Financial Forecasting | Python, TensorFlow, Time Series

- Published research in *Digital Finance* (Springer) on a hybrid deep learning model (ES-LSTM) that achieved an R^2 score of 0.9712 on S&P 500 data.
- Engineered a data processing pipeline using Python (Pandas/Statsmodels) to automate data retrieval, noise reduction, and model training for large-scale financial datasets.

CERTIFICATIONS

- Certified Kubernetes Application Developer (CKAD)**
- Microsoft Certified: Azure Fundamentals

EDUCATION

Punjab Engineering College

Aug 2023 – Oct 2025

Master of Technology: Computer Science — CGPA: 7.97

Chandigarh, India

Maharishi Markandeshwar University

July 2018 – May 2022

Bachelor of Technology: Computer Science — CGPA: 9.14

Ambala, Haryana