

OM PANDEY

SOFTWARE ENGINEER

Results-oriented Software Engineer with 3 years of experience in managing and optimizing cloud-native applications on AWS using Kubernetes and Ansible. Seeking a full-time DevOps role to leverage technical expertise and contribute to innovative projects. Proven ability to design, develop, and deploy scalable systems. Skilled in machine learning, with a strong foundation in algorithms and data analysis.

CONTACT

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- Gurugram, Haryana

TECHNOLOGIES

- Kubernetes
- Docker
- AWS
- AWS EKS
- Java
- Python
- Ansible
- Machine Learning
- MySQL
- Linux

SOFT SKILLS

- Communicative
- Adaptive
- Analytical and Problem Solving
- Time Management
- Emotional Intelligence

EXTRA CURRICULAR

- College football Championship 2018-2019
- Chess in school - 2 Silver Medals 2016-2017
- Best allrounder boy at the World's highest summer camp, Leh 2015 and 2016

CERTIFICATES

- Entry-level Kubernetes Certificate - Udemy
- Architecting with Google Kubernetes Engine
- Machine Learning for Trading
- Key Technologies for Business Specialization
- Machine Learning A-Z: - Udemy
- IBM Data Science Specialization - Coursera
- JAVA training - Capgemini
- C, C++ and Linux training - Capgemini

WORK EXPERIENCE

Professional - 1 Software Engineer

Capgemini India July 2023 - Present

- Migrated on-premise Kubernetes environment to AWS Elastic Kubernetes Service, optimizing resource utilization and enhancing scalability by 40%.
- Implemented AWS Network Load Balancers, Security Groups, and HTTPS certificates to establish secure and efficient network connectivity between microservices which led to a 50% reduction in security vulnerability incidents.
- Leveraged Ingress controllers and AWS NLBs to manage external and internal traffic, reducing costs by over 80% through targeted optimization of Target Group Bindings.
- Accelerated edge deployment through Ansible automation, troubleshooting and resolving issues to achieve an 80% reduction in failure rates.
- Orchestrated complex Kubernetes deployments on AWS, provisioning and managing EC2 instances, VPCs, and network peering for a secure and scalable infrastructure.
- Streamlined application deployment by converting diverse Docker service packages into a unified Docker Compose file, facilitating seamless integration into our platform.

Associate - 2 Software Engineer

Capgemini India June 2022 - June 2023

- Successfully migrated a complex Kubernetes environment from version 1.18 to a newer, supported version, ensuring uninterrupted service and optimized performance.
- Collaborated with cross-functional teams to implement and manage multiple Kubernetes Container Networking Interfaces (CNI) solutions, including Calico, Kube-OVN, and Cilium, to optimize network topology and security.
- Reduced resource consumption by 33% through the elimination of Docker integration on Kubernetes nodes, resulting in significant cost savings.
- Led a Proof of Concept (POC) to migrate on-premise, self-managed Kubernetes clusters to AWS, evaluating the feasibility and benefits of cloud adoption.

PERSONAL PROJECTS

Machine Learning using OOPS concepts

- Developed and implemented K-Means clustering and KNN classification algorithms in Python, applying foundational mathematical principles.
- Employed object-oriented programming (OOP) paradigms, including encapsulation, polymorphism, and inheritance, to create a robust and maintainable codebase for effective data analysis and model deployment.

Published Research Paper on Mushroom Classification

- Conducted a comprehensive comparative analysis of 14 Machine Learning algorithms, evaluating performance metrics such as accuracy, precision, and F1-score.
- Presented research findings at the 12th International Conference on System Modeling and Advancement in Research Trends (SMART) 2023.
- An IEEE Publication - <https://ieeexplore.ieee.org/abstract/document/10428619>

EDUCATION

Bachelors in Technology - Computer Science Engineering, with Specialization in Artificial Intelligence and Machine Learning

University of Petroleum and Energy Studies

2018 - 2022

CGPA : 7.79