

# Hamza Khan

## Cloud DevOps Engineer

✉ hamzi3307@gmail.com ☎ +923480599371 in LinkedIn 🌐 GitHub

### PROFILE

Computer Science graduate with a strong foundation in Cloud, DevOps, and artificial intelligence. Possessing a passion for continuous learning and actively maintaining proficiency in Kubernetes, CICD and IaC. Eager to apply my **1-2 years of experience** in infrastructure automation and containerization to contribute to a team that values collaboration and high performance.

### PROFESSIONAL EXPERIENCE

#### DevOps Engineer, AntonX Pvt Ltd

06/2023 – 10/2023

- Led the successful migration of a monolithic application onto a **Kubernetes cluster**, enhancing scalability, flexibility, and operational efficiency.
- Partnered with developers utilizing Git for version control, GitHub for collaboration, GitHub Actions for continuous deployment, and Docker for containerizing PHP and Node applications.
- Utilized AWS services like EC2, IAM, VPC, S3, RDS, DynamoDB, and NAT Gateways to design and implement robust and secure network architectures.
- Contributed to the recruitment process by actively participating as part of the interview team for hiring new interns which enhanced my communication and interpersonal skills.

#### Cloud DevOps Engineer, PufferSoft Pvt Ltd

11/2023 – present

- Utilized a range of AWS services like SES, Elastic Beanstalk, API Gateway, CloudWatch, CodePipeline, Lambda and Route53 to build and manage cloud infrastructure solutions.
- Deeply explored **Infrastructure as Code (IaC)** tools, particularly Terraform, by successfully delivering a challenging project that significantly enhanced my proficiency in its use.
- Collaborated with Python developers to configure and automate their deployment processes, streamlining their workflow and enhancing efficiency.

### SKILLS

**Operating System** (Linux, MacOS, windows), **Kubernetes** (StatefulSets, Ingress, Namespaces), **Version Control** (Git with GitHub, GitLab), **AWS** (EC2, S3, VPC, IAM, ECS, Elastic Kubernetes Service, Lambda, Route53), **Infrastructure as Code** (Terraform, CloudFormation, Ansible), **Continuous Integration and Continuous Deployment** (Jenkins, CodePipeline, GitHub Actions), **Databases** (MySQL, MongoDB, DynamoDB), **Monitoring Tools** (Prometheus, Grafana), **Containerization** (Docker, Containerd), **Coding and Scripting** (Python, Bash)

### PROJECTS

#### Monolithic to Kubernetes Migration on Huawei Cloud,

10/2023 – 12/2023

Enabling Scalability and Agility 🌐

- Deployed applications using YAML manifests for deployments, services, cronjobs, stateful sets, and Horizontal Pod Autoscalers.
- Ensured efficient **service discovery and load balancing** through service manifests and Ingress resources.
- Implemented automated scaling strategies with HPA for dynamic workload management as well as node level autoscaling.
- Utilized Prometheus and Grafana, using Huawei built-in add-ons, to monitor application health, resource utilization, and performance metrics.

#### Deploy Python Application and Setup CICD Pipeline in AWS Cloud 🌐

12/2023 – 02/2024

- While addressing, client's concerns with manual deployments and management.
- Implemented a solution using AWS CodePipeline and Elastic Beanstalk, automating their deployment process and reducing deployment time by 20%.
- Also provided Terraform code (IaC resources) to empower them with future automation.

### CERTIFICATES

- Huawei Cloud Certified Developer Associate (HCCDA)
- Docker and Kubernetes: The Practical Guide, Academind 🌐
- Terraform Training Course by Vijin Palazhi [KodeKloud] 🌐

### COURSES

#### AWS Solution Architect Associate Course SAA-CO3, Udemy (Neal Davis)

05/2023 – 07/2023

#### "Introduction to Linux" by the Linux Foundation, The Linux Foundation [EDX]

01/2023 – 04/2023

#### Artificial Intelligence (Deep Learning/Machine Learning),

07/2021 – 01/2022

National Vocational & Technical Training Commission (NAVTC)

### EDUCATION

#### Bachelor of Science in Computer Science, University of Peshawar

2020 – 2024 | CGPA: 3.84