

Abdul Hathi

DevOps Engineer

+971506231820 ◇ abduhadhi223@gmail.com ◇ Al Khalidiyah, Abu Dhabi, United Arab Emirates ◇ [LinkedIn](#) ◇ [GitHub](#) ◇ [Portfolio](#)

SUMMARY

Dynamic and results-oriented DevOps Engineer with 4 years of expertise optimizing infrastructure and deployment processes across airline and IoT domains. Proficient in Docker, Kubernetes, AWS, Azure, GCP, Linux (Ubuntu, RedHat), Python, Java, PowerShell, Shell Scripting, Grafana, and AppDynamics. Skilled in designing robust CI/CD pipelines, automating infrastructure with Terraform and Ansible and ensuring high availability through effective monitoring solutions. Proven track record of enhancing operational efficiency and driving continuous improvement in IT environments.

SKILLS

Cloud Platforms AWS, Azure, Google Cloud Platform
Containerization & Orchestration Docker, Kubernetes
Programming & Scripting Python, Java, JavaScript, Shell Scripting, Bash, PowerShell
CI/CD & Automation Jenkins, Terraform, Ansible, Github, Gitlab
Version Control Git, SVN
Database MySQL, Oracle, Postres, MongoDB, Cassandra
Monitoring Tools Zabbix, Grafana, AppDynamics, Prometheus, ELK Stack
Languages English, Tamil, Hindi, Malayalam

EXPERIENCE

- Devops Engineer**
Omniconn Development and Innovation Technologies

Sep '22 — Present
Abu Dhabi, United Arab Emirates

 - Spearheaded DevOps initiatives in the IoT domain, driving automation, scalability, and security across diverse IoT applications.
 - Developed and deployed a centralized platform for automated IoT device management, utilizing AWS IoT Core, Azure IoT Hub, and Kubernetes for scalable and reliable operations.
 - Designed CI/CD pipelines for continuous deployment of edge computing applications, reducing latency and improving real-time data processing for IoT solutions.
 - Implemented predictive maintenance systems using machine learning models and DevOps practices, enhancing equipment uptime and reducing maintenance costs.
 - Managed Docker containers and Kubernetes clusters for scalable IoT applications, enhancing operational efficiency and deployment consistency.
 - Automated CI/CD pipelines using Jenkins/GitLab CI/CD, integrating Python scripts for testing and deployment automation.
 - Developed automated deployment scripts in Python and Shell scripting, ensuring consistent and efficient updates across IoT platforms.
 - Collaborated with cross-functional teams, including developers and IoT specialists, to ensure seamless integration and operation across varied applications such as commercial buildings, home automation, fire safety, and energy management.
- System Engineer**
Tata consultancy services

May '20 — Sep '22
Chennai, India

 - Designed and implemented CI/CD pipelines for airline platforms, automating build, test, and deployment processes, leading to faster and more reliable software delivery.
 - Modernized airline reservation systems by migrating to a microservices architecture, utilizing Docker and Kubernetes for containerization and orchestration.
 - Developed a predictive maintenance platform for airline operations, leveraging cloud technologies and CI/CD pipelines to optimize maintenance schedules and reduce downtime.
 - Integrated robust security practices into CI/CD pipelines, including automated vulnerability scanning, compliance checks, and integration of security tools such as SonarQube and OWASP ZAP.
 - Managed and automated database schema designs for Oracle and MongoDB using Ansible and Terraform, ensuring consistent and efficient database provisioning and configuration.
 - Deployed comprehensive monitoring and logging solutions with AppDynamics, ELK Stack, and Prometheus, facilitating proactive monitoring and troubleshooting of platform performance and security issues.
 - Facilitated cross-functional collaboration between development, operations, and security teams to streamline communication and enhance overall efficiency in delivering secure and scalable platform solutions.

EDUCATION

Bachelor of Engineering in Computer Science, Anna University (GPA: 70%)

Jun '16 — Mar '20
Chennai, India

CERTIFICATIONS

Agile Scrum Foundation certification

Microsoft Certified: DevOps Engineer Expert

PROJECTS

Automated IoT Infrastructure Deployment, Omniconn Development and Innovation Technologies

- **Device Provisioning and Configuration:** Automate the provisioning and configuration of IoT devices using AWS IoT Core enabling zero-touch deployment.
- **CI/CD Pipelines for Firmware Updates:** Implement CI/CD pipelines using Jenkins CI/CD to automate the build, test, and deployment of firmware updates to IoT devices, ensuring consistent and secure updates across all devices.
- **Monitoring and Alerting:** Use Grafana and Prometheus to monitor device health, connectivity, and performance metrics in real-time. Set up alerting mechanisms to notify operations teams of potential issues.

Edge Computing with Continuous Deployment for IoT Applications, Omniconn Development and Innovation Technologies

- **Edge Application Deployment:** Use Kubernetes at the edge to manage and deploy containerized applications closer to IoT devices, reducing latency and bandwidth usage.
- **CI/CD Pipeline Integration:** Set up CI/CD pipelines with Jenkins or GitHub Actions to automate the deployment of edge applications, including version control, automated testing, and staged rollouts.
- **Edge Monitoring and Analytics:** Implement monitoring using ELK Stack to track the performance of edge applications, detect anomalies, and optimize resource usage.

Airline Reservation System Modernization with Microservices, Tata consultancy services

- **Microservices Migration:** Break down the monolithic reservation system into microservices, such as booking, payments, notifications, and customer management.
- **Containerization:** Use Docker to containerize microservices and deploy them on Kubernetes for efficient management and scalability.
- **CI/CD Pipelines:** Implement CI/CD pipelines with Jenkins to automate the build, test, and deployment processes for each microservice.