MD AHAMED

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DevOps Engineer

DevOps engineer with over three years of experience supporting and automating critical deployments over extensive infrastructure. Proficient in Kubernetes, Jenkins, AWS CodePipeline and Monitoring Tools. Skilled in using various DevOps tools and cloud technologies to promote teamwork, speed up project timelines, and ensure stable, scalable systems. Passionate about technology and constantly working towards improving myself and company's growth.

PROFESSIONAL SUMMARY

- Extensive 3 years of hands-on experience in programming languages such as **Java** and **Python** with a proven track record of developing and optimizing automation scripts and tools.
- Proficient in **Kubernetes** with demonstrated track record in **deploying**, **managing**, and **optimizing** containerized applications in diverse and dynamic environments.
- Experience in robust **Continuous Integration** (CI) solutions using Jenkins, scripting, ArgoCD and other DevOps technologies to automate the integration and deployment processes.
- Proficient in leveraging **Terraform** to orchestrate and automate infrastructure deployments as an **Infrastructure as Code** principles.
- Skilled in **design** and **deployment** of automated workflows that significantly reduced build and deployment times, enhancing overall team efficiency.
- Expertise with AWS services, including **EC2**, **S3**, **EBS**, **ELB, EKS, RDS, R53, CloudWatch**, **IAM** for automated deployment and infrastructure management.
- Experience with programming languages like **Python**, **Java**, **Shell** for environment builds and deployment automation.
- Skilled in automating code integration and deployment processes including **Lambda**, **CodeDeploy**, **CloudFormation**, and **OpsWorks**.
- Experience with containers like **Docker** and microservices architecture.
- Strong understanding of **SDLC** methodologies like **Agile**, **Scrum**, CI/CD pipelines, and application release management.
- Experience in Querying **RDBMS** such as **MYSQL** and **SQL** Server using SQL for data integrity.
- Knowledge of monitoring tools like **Splunk, CloudWatch** for system health tracking and alerting.
- Expertise in build tools like **Ant**, **Maven** and CI/CD tools like **Jenkins** and **CodePipeline**.
- Capable of learning new tools and technology very quickly.

TECHNICAL SKILLS

- **Operating Systems:** Windows, Mac, Linux, UNIX, Ubuntu.
- **Cloud:** AWS, GCP
- **Programming Languages:** C++, Python, Java, SQL, Shell Script.
- **Database:** MySQL, SQL Server, NoSQL(DynamoDB, MongoDB), Firebase.
- **Server:** Apache, Tomcat, Nginx
- **Infrastructure as Code:** Terraform, CloudFormation.
- **Version Control:** Git, GitHub, CodeCommit.
- **Build Automation:** Maven, ANT, Gradle, CodeBuild.
- **CI/CD Tools:** Jenkins, CodePipeline, Bamboo, GitLab, Cloudbees, ArgoCD, Workato, Mulesoft.

- **Monitoring Tools:** Splunk, CloudWatch, Grafana, Prometheus.
- **Configuration Management:** Puppet, Ansible, Chef.

EXPERIENCE

Cloudanics (IT Software Solution Provider)   Clifton, New Jersey
DevOps Engineer   (June 2023 – Present)

Responsibilities:
- Work as part of the software development lifecycle and address **zero-downtime** release management.
- Design, implement and maintain **large-scale Kubernetes** clusters with monitoring, logging, and alerting.
- Achieving reduction in cloud infrastructure costs by optimizing resource allocation and implementing cost-saving measures.
- Implementing scalable infrastructure that supported a 100% increase in user traffic without any performance degradation.
- Improving software deployment efficiency through implementation of DevOps practices and automation tools.
- Terraform as Infrastructure as a Code service used to provision **AWS** resources like **EC2, EKS, S3, RDS, R53** and many more.
- Build scripts using **Maven** build tools in **Jenkins** to move from one environment to another environments.
- Health status analysis of application resources using **ArgoCD**.
- Work collaboratively with developers, network engineers, and project managers to support software development and deployment.

Techlord Ltd (Software Development Company)   Dhaka, Bangladesh
Software Developer & Operation Engineer   (April 2020 – April 2023)

Responsibilities:
- Develop applications using **React.js** as (Front-end) and **Python** & **Java** as (Back-end).
- Test and deploy web applications on cloud platforms, ensuring efficient, responsive, and user-friendly interfaces.
- Work with cloud platforms such as **AWS**, **GCP** to manage infrastructure and EC2, EKS, VPC to maintain application uptime.
- Designed and maintained **disaster recovery** and business continuity plans, ensuring the high availability of systems.
- Implementing an **error-handling** alert structure using **CloudWatch**, **CloudTrail** and **SNS** to boost system reliability.

ADDITIONAL EXPERIENCE

American International University-Bangladesh (University)   Dhaka, Bangladesh
Teaching Assistant (Lab) (Internship)   (September 2021 – March 2022)

Responsibilities:
- Assist students with programming **concepts**, **debugging**, and **problem-solving** during lab sessions.

- Student **observation, reporting** to teacher**,** and serving students who need additional support to complete tasks.

EDUCATION

- **Master of Science** in **Information Technology**   **(**2023 – 2024)
  University of the Cumberlands   Williamsburg, Kentucky

- **Bachelor of Science** in **Computer Science & Engineering**   **(**2018 – 2021)
  American International University-Bangladesh   Dhaka, Bangladesh

CERTIFICATE & COURSES

- *AWS Cloud Technology Consultant* – Coursera by Amazon Web Services – Ongoing
- *Google Cloud Certification-Cloud Architect* – Coursera by Google Cloud – October 2020
- *Networking in Google Cloud* – Coursera by Google Cloud – August 2020
- *Python for Everybody* – Coursera by University of Michigan – August 2020
- *Google IT Automation with Python* – Coursera by Google – July 2020