# Bhopathi Vardhan Kumar Reddy

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## Experience

**Software Engineer - II**                                            *Pune, Maharashtra*
*Bajaj Finserv Direct Limited*                                        *2023 – Present*

- Managed and maintained **AWS Cloud Infrastructure**, including **server Provisioning**, **network configuration**, and **security management** for **Development, QA and Production environments using Linux (Ubuntu)**.
- Designed and developed **highly available, fault-tolerant, and auto-scaling** cloud services across AWS working with **EC2, VMs, IAM, S3, ELB, VPC, RDS, Route53, SQS, SNS, CloudFront, ASG, ECS and Lambda** .
- Improved overall efficiency and consistency in the software delivery process by **35%** through implementing best practices learned from the DVA-C02 certification.
- Automated cloud infrastructure provisioning and configuring using **Terraform and Ansible** for **compute and network resources** accross environments.
- Automated 90% of **CI/CD Pipelines**, reducing manual effort and deployment time across **non-production and production environments** .
- Developed and deployed multiple **Docker containers** leveraging **Terraform** for infrastructure provisioning, including **EC2, VPC and Security Groups**.
- Automated **kubernetes deployment** using **Jenkins CI/CD pipelines**, integrating **Ansible**, Docker, and Webhooks.
- Achieved a **40% ($29K) cost reduction** by analyzing CPU utilization and **optimizing AWS instance types**.
- Led **Production Infrastructure setup and deployment**, reducing deployment time by **80%**, optimizing processes for efficiency, ensuring **on-delivery with 100% success rate.**
- Implemented and maintained **monitoring, alerting, and logging tools** such as **CloudWatch, CloudTrail, and ELK (Elasticsearch, Logstash, kibana)** for **performance optimization and issue resolution**.
- Gained expertise in **Microservices Archirtecture,** enabling **Agile build, release processes,** and **security best pratices** to enhance platform stability. **Atlassian Jira** and **Confluence** for tracking.
- Implemented **open-source** based **containerization** solutions on **Linux** to support scalable backend services, adhering to SRE principles for system reliability, managing configurations via **version control** (Git), and leading **incident response** and root cause analysis to ensure compliance, high availability, and optimized caching and load balancing.
- Developed and automated robust ETL scripts using Python, SQL, and Boto3 to extract data from AWS S3, transform it, and load into MySQL/MariaDB, improving data processing efficiency by 60%, implemented logging, error handling, and incremental loads to ensure 99.9% data accuracy across environments.
- Improved platform reliability by 45% and reduced incident response time by 35% through effective risk management, continuous data analytics, and responsive technical support, while closely tracking key KPIs.

## Skills

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| **Programming Languages:** Python, PHP, Java | **Infrastructure as Code:** Terraform, Ansible, CloudFormation |
| **Build Tools:** Maven | **Devops Tools:** Linux, Docker, Kubernetes, Unix, Helm |
| **Cloud Technologies:** AWS | **Moitoring Tools:** Grafana, ELK, Prometheus |
| **Web Services:** Nginx, Apache HTTP Service | **Scripting Languages:** YAML, Puppet, Bash/Shell Scripting |
| **Database:** MySQL, Redis, MariaDB, MongoDB | **Soft Skills:** Leadership, Team Collaboration, team player, communication skills, Problem-Solving, decision-making |
| **CI/CD Tools:** Gitlab, Jenkins, Bitbucket, CircleCI | |

## Education

**SRM University - AP**                                               *2019 – 2023*
*B.Tech - Computer Science and Engineering with Specialization in Internet of Things*   **CGPA: 8.73/10**

- Coordinated and executed multiple sports fest events, and high participation.

## Awards/Certifications

- Super Archiever Award (Oct 2024)
- Learning and Development: Teaching Credit Points Winner (Nov 2024)
- Docker and Kubernetes:(May 2024)
- AWS Certified Developer - Associate: DVA-C02 (AWS) (Sep 2024)
- Deployment Star Award for Exemplary performance in Bajajmall AOP Delivery (Mar 2024)
- Adobe certified professional - Adobe Commerce Developer (ADO-E717) (Mar 2024)
- Rising Star Award for Outstanding performance in Devops and Prodsupport (Jan 2024)