# PRASHANT SINGH

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## Work Summary

DevOps Engineer with over 2 years of experience, currently at Wikreate Worldwide Pvt Ltd. Skilled in Linux, containerization, cloud, and CI/CD technologies, with proven expertise in pipeline creation, application deployment, and workflow optimization to ensure seamless integration and high system reliability.

## Technical Skills

- **Platforms**: Linux, Windows
- **Containerization**: Docker, Kubernetes, Portainer
- **Cloud**: AWS (EC2, CloudFront, Route53, S3, SES, SNS, EBS, ELB, IAM, RDS, CloudWatch, VPC)
- **Infrastructure as Code (IaC)**: Terraform, Ansible
- **Programming**: Bash (Shell Script)
- **CI/CD**: Jenkins, GitHub Actions
- **Databases**: MySQL, MongoDB
- **Version Control**: Git, GitHub
- **Web Servers**: Nginx, Apache
- **Monitoring**: Grafana, Prometheus

## Work Experience

### AWS DEVOPS ENGINEER | WIKREATE WORLDWIDE PVT LTD | SEP'23 – PRESENT

- **CI/CD Automation & Infrastructure Management**: Configured and managed **CI/CD pipelines** using **GitHub Actions** and **Terraform**, automating infrastructure provisioning and reducing deployment time by **40%**.
- **Containerization & Orchestration**: Deployed and managed microservices with **Docker** and **Docker Compose** on EC2, enhancing scalability and improving deployment efficiency. Utilized **Portainer** for container management and monitoring.
- **Real-Time Monitoring & Optimization**: Set up **Prometheus** and **Grafana** for system monitoring, and optimized content delivery via **CloudFront**, reducing page load times by **30%**.
- **Email Delivery & Monitoring**: Configured **Postfix** integrated with **AWS SES** to ensure **99.9% uptime** for email delivery. Set up **Amazon SNS** and **CloudWatch alerts** to reduce **system downtim**e by **50%**.
- **Traffic Management & Security**: Deployed **Nginx** and **Apache** as reverse proxies for efficient traffic management across frontend, backend, and databases. Implemented **SSL** for secure communication and established disaster recovery protocols ensuring **99.99% availability**.

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- **Containerization:** Utilized **Podman** and **Quay** for containerization, reducing image build time by **35%** and optimizing container management across environments.
- **Continuous Integration:** Integrated **SonarQube** for automated testing and code quality checks, achieving a **95% code coverage** and improving software quality across development environments.
- **Microservices Management:** Managed and deployed microservices with **Red Hat OpenShift**, ensuring **scalability** and consistent deployments, with **100% uptime** for mission-critical services.

## Key Projects

### AWS DEVOPS ENGINEER | WIKREATE WORLDWIDE PVT LTD

- **PROJECT1- MEDFLICK.COM**
- **PROJECT2- AAYUSHKAR.COM**
- **PROJECT3- BHARATONECARE.COM**
- **PROJECT4- THELALIT.COM**
- **PROJECT5- ETERNALHOSPITALS.COM**

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- **PROJECT- E-OFFICE SOFTWARE**

## Personal Projects

**GitHub Link: -** [prashant2599](prashant2599)

- Deploy **MERN** Stack on **AWS ECS** with **EC2** Using CI/CD **GitHub Actions**.
- Provision **Amazon EKS Cluster** Using **Terraform.**
- Deploying **Stateless React Application** on **Mini Kube**
- **GitHub Action CI/CD**: Create an **S3 bucket** and IAM User using **Terraform**
- Integrating **AWS Lambda** with services like **S3**, and **API Gateway** and retrieving the Lambda function event using API Gateway.

## Soft Skills

- **Collaboration** and **Communication**
- **Analytical Problem-Solving**
- **Proactive Time Management**

## Education

- **B. TECH (CS&E) | TEERTHANKER MAHAVEER UNIVERSITY | 2019-2022 | CGPA:8.0**

## Certifications

- **Docker Training Course for the Absolute Beginner – Kode Kloud**
  **Certificate Link**
- **AWS Cloud Computing Internship – Linux World Informatics Pvt. Ltd.**
  **Certificate Link**