

# RAHUL BANDHARAM

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## PROFILE

DevOps Engineer with 3+ years of experience designing and optimizing CI/CD pipelines, automating deployment workflows, and ensuring seamless delivery processes. Skilled in containerization, infrastructure as a code (IaC), system monitoring, and implementing security best practices.

## SKILLS

**Scripting Languages:** Python, Bash, Terraform, Groovy, PowerShell

**Databases:** MySQL, RDS, DynamoDB, Snowflake

**DevOps Tools:** Docker, Kubernetes, Helm, Jenkins, Git, GitHub Actions, GitLab CI, Terraform, CloudFormation, Ansible, Prometheus, Grafana, SonarQube, Agile, Scrum, YAML

**Cloud:** AWS, Azure, VMware

**Operating Systems:** Linux (Ubuntu, Amazon Linux), Windows Server, MacOS

**Soft Skills:** Communication, Team Collaboration, Problem-solving, Time Management, Digital Literacy, Leadership

## CERTIFICATIONS

- [Certified Kubernetes Administrator \(CKA\)](#)
- [Certified Kubernetes Application Developer \(CKAD\)](#)
- [AWS Certified Cloud Practitioner Foundational](#)

## EXPERIENCE

### The Marketing Store Worldwide LLC ([TMS](#)) | Toronto, Canada

**Clients:** McDonald's, T-Mobile

#### DevOps Engineer | June 2022 – Present

- Migrated **Jenkins build jobs to GitHub Actions**, reducing build and deployment times and enabling developers to release features 40% faster. Standardized CI/CD processes across the organization and implemented at least 10 CI/CD pipelines for various use cases.
- Deployed a full-stack **JavaScript** application and MySQL-based **RDS** backend on **EKS**, utilizing Kubernetes manifests and configuring internal network access within a **VPC** using Route53 and AWS ELB.
- Set up Kube **Prometheus** via **Helm** for comprehensive monitoring, integrating custom alerts with **PagerDuty** and **Slack**, and configuring Grafana dashboards with metrics from Prometheus and **CloudWatch exporters**, improving MTTR by 35%.
- Engineered end-to-end ETL pipelines using AWS services including **EMR**, **Lambda**, **S3**, and **Athena** for querying, while integrating real-time alerts via Slack and PagerDuty. Utilized **VPC**, subnets, and **NAT Gateway** for secure networking. Leveraged Python libraries such as **boto3**, **paramiko**, and **pandas** for automation and optimized data processing.
- Automated cross-account patching for **Linux**-based EC2 instances using **AWS Systems Manager (SSM) documents** and **AWS Lambda**, cutting EC2 patching times by 99% and ensuring compliance across multiple AWS accounts with zero downtime.
- Migrated **EC2**-based applications to **AWS Batch**, reducing infrastructure costs by 45% and eliminating the need for constant EC2 patching and management. This significantly reduced operational overhead and freed up time for the engineering team to focus on innovation.
- Streamlined IAM Identity Center with **Azure Active Directory for SAML-based authentication**, replacing IAM users to enhance security and streamline access management.
- Onboarded 500+ partners to our **FTP** system, ensuring secure file **encryption at rest and in transit**. Enforced strict security standards, including MFA, password complexity requirements, and automated deletion of inactive users.

#### Junior DevOps Engineer | Nov 2021 – June 2022

- Conducted a comprehensive **S3 storage audit** using **S3 Storage Lens**, leading to a 25% reduction in storage costs by cleaning up unused buckets and optimizing data storage strategies.
- Developed **Python scripts for FTP migrations**, automating data transfer and directory structures, saving hours of manual effort.
- **Managed access control** for GitHub, Jenkins, and VPN across environments, enforcing security protocols and preventing unauthorized access.
- Successfully migrated repositories from **Bitbucket to GitHub** enhancing repository management
- Led the migration of **Windows servers** from 2019 to 2022, ensuring an in-place upgrade with zero downtime, contributing to improved security and system performance.
- Automated provisioning of AWS resources such as **EC2 instances**, **RDS databases**, **VPCs**, and security groups using **Terraform** reducing manual configuration errors and improving repeatability and consistency across environments.

## ACHIEVEMENTS

- **Cost Reduction & Efficiency:** Designed and implemented fully automated CI/CD pipelines, reducing deployment times by 50% and increasing deployment frequency by 75%.
- **System Reliability:** Increased system reliability through proactive monitoring and alerting, implementing security policies that reduced incidents by 50%.
- **Performance Improvements:** Optimized infrastructure, reducing costs and improving system efficiency by 40%.

## EDUCATION

### Loyalist College, Toronto, Canada

Post Graduate Diploma in Project Management

**Jan 2021 - Aug 2021**

### George Brown College, Toronto, Canada

Post Graduate Diploma in Mobile Application Development and Strategy

**Jan 2020 - Dec 2020**

### Jawaharlal Nehru Technological University, Hyderabad, India

Bachelor of Technology in Computer Science and Engineering

**Aug 2015 - July 2019**

## PROJECTS

Event-Driven Analytics Platform with Kafka and Node.js: Created a data analytics platform that processes and visualizes real-time user behavior data using Kafka and Node.js microservices. Deployed the solution on Kubernetes with infrastructure managed by Pulumi. Set up a CI/CD pipeline with GitLab CI to automate deployments, and used Prometheus/Grafana for monitoring data flow and application performance.