

Gurekam Singh Bedi

(548) 332-1019 | gurekamsinghbedi@gmail.com | Toronto, ON | [LinkedIn](#)

SUMMARY

DevOps Engineer with around **4+ years** of experience delivering scalable cloud infrastructure and automation pipelines in **AWS and Azure** environments. Proficient in infrastructure-as-code (**Terraform, CloudFormation, Ansible**), container orchestration with **Kubernetes** and **Docker**, and end-to-end pipeline automation using **Jenkins, GitHub Actions**, and **ArgoCD**. Adept at developing custom tools with **Python**, and **Bash**, integrating monitoring with **Prometheus, Grafana**, and **ELK**. Passionate about operational excellence and continuous delivery at scale.

EDUCATION

Master of Applied Computing (GPA 3.6/4) <i>University of Windsor, Windsor, ON</i>	September 2023 - December 2024
Bachelor of Technology (Information Technology, GPA – 3.56/4) <i>Guru Nanak Dev Engineering College, Ludhiana, India</i>	August 2018 - July 2022

TECHNICAL SKILLS

- Cloud Platforms:** AWS, Azure, Databricks, Kafka, Flink, Athena, Dataflow
- Infrastructure as code (IAC) and Testing:** Terraform, Chef, Ansible, CloudFormation, CDK, End-to-End (e2e)
- Containerization and Version Control:** Docker, Kubernetes, Git, GitHub
- Continuous Integration/Continuous Deployment (CI/CD):** Jenkins, ArgoCD, GitHub Actions, Maven, Artifactory
- Monitoring and Alerting:** Prometheus, Grafana, Telegraf, CloudWatch, Open Telemetry, Splunk, Dynatrace
- Programming languages and Frameworks:** Python, Bash, Java, C, Node.js, Express.js, React, Spring boot, GoLang, C++
- Databases:** MySQL, Oracle, MongoDB, Postgres, NoSQL

EXPERIENCE

DevOps Engineer <i>Alpha Tickets Ltd. Toronto, ON</i>	November 2023 - Present
<ul style="list-style-type: none">Architected and deployed a high-performance ticketing platform on Azure AKS with Docker containers, handling concurrent users during peak events and ensuring 99.9% uptime.Automated CI/CD pipelines using Azure DevOps and Github Actions, accelerating releases and minimizing errors.Built Node.js utilities for processing ticketing data streams and wrote optimized SQL queries to support analytics and reporting.Developed custom scripts and tools using Python and Powershell to automate routine DevOps tasks, saving 10 hours per week.Designed, tested, and deployed RESTful APIs with Spring Boot, automated API testing using Postman and Pytest.Configured Prometheus and Grafana on Azure for real-time monitoring and alerting, reducing MTTD by 50%.	
DevOps Engineer <i>Paytm (One97 Communications Ltd.), Noida, India</i>	January 2022 - June 2023
<ul style="list-style-type: none">Automated AWS infrastructure provisioning with Terraform modules for EC2, S3, VPC, SG, and EMR, reducing setup time by 50%.Implemented Prometheus, Grafana, and ELK stack for proactive monitoring and centralized logging; established Telegraf and kube-state-metrics, reducing manual checks by 20%, and set up EFK stack for enhanced troubleshooting and security.Led CI/CD pipeline migration using Jenkins with Helm charts and ArgoCD on EKS, cutting deployment failures by 70%Used Elasticsearch in ELK stack to index logs and enable fast querying for incident diagnostics.Developed data ingestion pipelines from AWS and on-prem VMware assets to MongoDB for real-time inventory tracking.Drove cost optimization initiatives leveraging Kubecost, cutting AWS expenses by 30% across 10 accounts.Led on-call support via PagerDuty, ensuring 99.9% uptime through rapid incident resolution and RCA.	

PROJECTS

<u>Spreadsheet Application (Flask, Redis, Socket.IO, AWS EKS, Python, GitHub Actions)</u>
<ul style="list-style-type: none">Developed a real-time collaborative spreadsheet app with Flask and Socket.IO for instant updates across users.Implemented Redis-based write access control to allow one editor at a time with inactivity timeout handling.Used DuckDB for local-first analytics and session-based auth to enforce data-level access restrictions.Set up CI/CD pipelines via GitHub Actions; deployed on AWS EKS using Karpenter for dynamic node scaling.
<u>EcoExchange (Django, Redis, Stripe API, SQLite, JavaScript)</u>
<ul style="list-style-type: none">Architected containerized Django microservices with Redis real-time bidding, reducing latency by 40% through WebSocket optimization.Implemented real-time auction updates using Redis Channels and WebSocket for instant bid notifications.Automated CI/CD pipeline via GitHub Actions, implementing rigorous testing pre-deployment.Secured payment infrastructure with Stripe API integration and encrypted session management (100% PCI compliance).

CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals AZ 900
- Microsoft Certified: Azure Administrator Associate AZ 104
- AWS Certified Cloud Practitioner