

Karamjit Brar

DevOps Engineer — Cloud & On-Premises Infrastructure Specialist

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Technical Skills

Cloud & DevOps: AWS, GCP, Kubernetes, Terraform, Jenkins, Docker, Ansible, SaltStack, Prometheus, Gitlab

Programming & Scripting: Python, Java, Groovy, Bash, SQL, PowerShell

Operating Systems: RHEL9, Ubuntu, Windows Server

Work Experience

System Engineer

Dec. 2023 – Present

Questrade, Toronto, ON

- Architected a multi-stage Jenkins-based self-service VM provisioning platform for on-prem vSphere, incorporating pre-provision sanity checks (IP, DNS, Salt, network devices) and post-provision registration with Satellite, SaltStack, and IPAM, **reducing VM deployment time by 90%**.
- Reduced monthly cloud expenditures by **\$6,000** by implementing a dynamic cost optimization solution; analyzed usage metrics to toggle 100+ low-usage contractor accounts from monthly to hourly billing cycles.
- Engineered an **end-to-end self-service DNS provisioning portal** that cut the time from **2 days to minutes**; integrated Jira, Slack approval gates, and a Jenkins pipeline to manage AD DNS updates.
- Automated AWS WorkSpaces lifecycle management for a 300+ user fleet by engineering a **serverless architecture (API Gateway, Lambda)** integrated with **Jira webhooks** to streamline **on-demand provisioning**.
- Deployed a high-availability Prometheus stack with Thanos sidecars and Grafana on a hybrid EKS cluster (AWS control plane, on-prem nodes), fully managed through Argo CD GitOps pipelines to enable scalable monitoring and logging.
- Implemented a **GitLab CI/CD pipeline** that automated **Maven builds and deployment to target AWS server**, securely managed sensitive variables, and post deployment health checks.
- Designed and deployed an AWS environment for a **new product launch** using **Terraform**, including the creation and configuration of VPCs, subnets, and security groups. Ensured the setup was well documented and maintainable for future teams.
- Implemented a GitLab CI/CD governance framework for **SaltStack** by architecting a dedicated QA environment; automated validation of salt state files to prevent error-prone code from reaching production.

Infrastructure Engineer Intern

May 2023 – Dec. 2023

Questrade, Toronto, ON

- Hardened infrastructure security by migrating hard-coded credentials from **Terraform and Packer** repositories to a **centralized Secret Server** to eliminate plain-text exposure and enable **automated password rotation**
- Deployed reverse proxy for **Algosec** in a restricted VLAN; managed SSL certificates and Entra ID SSO reply URLs.
- Built **Bash/Python** GitLab pipeline to sync Palo Alto Prisma data with **Device42**, improving **asset accuracy**.

DevOps Engineer Intern

Sep. 2022 – Apr. 2023

CGI Inc., Markham, ON

- Led **migration and consolidation** of an outdated Jira Data Center instance to a **newer central instance**; developed a detailed step-by-step migration plan to ensure a seamless transition into the new environment.
- Managed both new and existing Jira projects, leading the transition from Excel to Jira to drive organization-wide adoption.

Education and Certificates

Bachelor of Science, Computer Science — GPA: 3.8/4.0

York University, Toronto, ON

Certified Kubernetes Administrator (CKA) July 2025

AWS Certified Solutions Architect – Associate Jan 2025

AWS Certified Developer – Associate Sep 2024