

Karamjit Brar

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Technical Skills

Languages: Python, Java, Groovy, SQL, Bash, PowerShell

Tools & Technologies: Jenkins, Docker, Terraform, Kubernetes, Ansible, Jira, SaltStack, Chocolatey

Cloud Platforms: AWS (EC2, S3, Lambda, CloudFormation), GCP, vSphere

Operating Systems: Linux (RHEL9), Windows

Work Experience

System Engineer

Dec. 2023 – Present

Questrade, Toronto, ON

- Engineered Jenkins pipelines for VM deployment on vSphere and GCP using Terraform, reducing **deployment time by 90%**.
- Automated AWS Workspaces creation by implementing **serverless architecture**, triggered through Jira web request.
- Implemented cost tracking & optimization strategies utilizing Tags and Cloud Custodian, **saving \$12000 per month**.
- Wrote Salt States and Ansible Playbooks to standardize RHEL VM configurations, improving compliance.
- Upgraded and containerized Jenkins in a Docker environment with Nginx reverse proxy, ensuring zero downtime and agent connectivity during updates through meticulous port and network management.

Infrastructure Engineer Intern

May 2023 – Dec. 2023

Questrade, Toronto, ON

- Wrote Bash and Python-based **GitLab pipeline** to sync data from Palo Alto Prisma to Device42.
- Enhanced security by replacing hard coded credentials with environment variables across **Terraform and Packer** codebases.
- Automated Salt minion recovery processes via Jenkins, resolving configuration failures within 15 minutes using SSH/WinRM.
- Deployed Chocolatey packages for multiple applications to internal **Jfrog Artifactory** enabling standardized installations across **200+ Windows servers**.

DevOps Engineer Intern

Sep. 2022 – Apr. 2023

CGI Inc., Markham, ON

- Led a seamless, zero-downtime Jira migration from cloud to Data Center, handling server provisioning and backups.
- Automated issue synchronization between Jira projects using **Groovy** and scriptRunner, eliminating manual effort.
- Managed access controls for Atlassian tools and internal servers, ensuring compliance with security policies.

CNC Programmer

Aug. 2017 – Sept. 2020

Commercial Spring and Tools, Mississauga, ON

- Programmed CNC machinery using G-code, reducing cycle times and material waste by 20%.
- Designed Excel based inventory tracking system, cutting stock discrepancies and prompting purchases for restocking.
- Diagnosed and resolved Windows OS and hardware issues, minimizing operational downtime.

Education

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

York University, Toronto, ON

2023

Certifications

AWS Certified Solutions Architect Associate — Jan. 2025

AWS Certified Developer Associate — Sept. 2024