

# Karamjit Brar

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## Education

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### York University

2023

Bachelor of Science, Computer Science

Toronto, ON

- Cumulative GPA: 3.8/4
- Advanced Object-Oriented Programming, Algorithms, Operating System Fundamentals and Database Systems

## Work Experience

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### System Engineer

Dec. 2023 – Present

Questrade

Toronto, ON

- Engineered **Jenkins** pipelines to deploy VMs on **vSphere** and **GCP**, utilizing **Terraform** for infrastructure provisioning and management and **Packer** for image creation.
- Architected an **AWS workspaces** creation process, leveraging Jira-triggered workflows with **API Gateway** and **AWS Lambda**, standardizing deployment and adding necessary tags for cost tracking.
- Bolstered **Saltstack** infrastructure reliability by developing automated installation and repair for unhealthy minions using **Jenkins**
- Deployed Cloud Custodian policies using **AWS Lambda** to automate the remediation of non-compliant or unused cloud resources, leveraging **SQS** and **SES** to notify resource owners.

### Infrastructure & Cloud Operations Intern

May 2023 – Dec. 2023

Questrade

Toronto, ON

- Developed custom **Chocolatey** packages for a wide range of software applications, streamlining VM provisioning processes and enabling rapid, standardized software installations.
- Engineered a **Bash** and **Python** based solution to automate the transfer of VPN (Prisma) endpoint IPs related information to **Device42** for streamlined whitelist management.
- Enhanced security by replacing hardcoded passwords with environment variables across Jenkins, **Terraform**, and **Packer** codebases in the internal GitLab repository.
- Developed a **Python** based automation solution for employee management, Fetching data from Ceridian Dayforce APIs and generating Jira tickets based on employee metadata.

### DevOps Engineer Intern

Sep. 2022 – Apr. 2023

CGI Inc.

Markham, ON

- Spearheaded the migration of **Jira** from cloud to Data Center instance with zero downtime and no loss of data.
- Automated issue synchronization between Jira projects using **Groovy** and **ScriptRunner**.
- Contributed to client cost tracking initiatives by collecting and validating database and VM usage metrics through cross-team collaboration.

## Certifications

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AWS Certified Developer Associate 2024, AWS Certified Cloud Practitioner 2022

## Technical Skills

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**Languages:** Python, Java, Groovy, SQL, JavaScript, Bash, Powershell

**Tools:** Jenkins, Docker, Terraform, Packer, Kubernetes, Salt, SCCM, Jira, Saltstack, Chocolatey, Cloud Custodian

**Platforms:** AWS, GCP, Azure, Vmware Vsphere