

Peter Choi

Address: Toronto, Canada

Email: shpeterchoi@outlook.com

LinkedIn: <https://www.linkedin.com/in/pechoi>

GitHub: <https://github.com/peterchoi-ca>

Web: <https://www.peterchoi.ca>



Profile

Peter is an experienced IT professional with a versatile background in system administration, professional services, and consulting. He specializes in GCP and Azure, excelling at automating CI/CD pipelines with modern software development practices. Committed to lifelong learning, Peter enjoys updating skillsets in emerging technologies. As a technical consultant, he focuses on driving business value through coding, automation, and cloud solutions.

Skills:

- **CI/CD:** Azure DevOps, GitLab, GitHub Actions, ArgoCD
- **IaC:** Terraform (OSS), Terraform Cloud (SaaS)
- **Secrets Management:** HashiCorp Vault Enterprise
- **CSPs:** GCP, Azure
- **Container Orchestration:** Podman, Kaniko, Kubernetes
- **Automation:** Git, Bash Scripting, Golang

Work Experience

01/2022 – present
Toronto, Canada

Cloud Consultant Sourced Group (An Amdocs Company)

Vault Integration in GCP for Canadian Telecom Company:

- Upgraded existing GitLab pipeline templates with dynamic GCP secrets engine integration, establishing secure secret consumption standards.
- Improved security posture by implementing pipeline automation to dynamically inject secrets into Terraform Cloud (TFC) workspace variables. This ensured the utilization of just-in-time credentials during TFC runs, enhancing security measures.

Scaling GCP Permissions Automation for Canadian Telecom Company:

- Developed Terraform modules for GCP folder/org level permission automation and role assignments, enhancing security and scalability.
- Automated IAM role assignments using GitLab pipelines and streamlined permission management by transitioning manually created IAM configurations into managed Terraform states and code.

GCP Container Deployment Pipeline for Canadian Telecom Company:

- Created a secure deployment pipeline for Cloud Run, integrating Prisma vulnerability scanning into GitLab pipelines to ensure deployment of trusted container images.
- Advanced deployment security by implementing GCP binary authorization, ensuring only verified images are deployed, mitigating risks associated with unauthorized microservices.

Azure Cloud Enablement for Canadian Federal Government Agency:

- Assessed cloud migration readiness of pathfinder applications, highlighting the landing zone potential for process efficiency and automation benefits to government partners.
- Implemented a .NET app deployment pipeline tailored for Windows-based CRUD systems, utilizing Azure DevOps, Terraform, and Terragrunt. Central to this pipeline was the Azure App Service Environment (ASE), featuring deployment slots and integration with Microsoft SQL backends.

Work Experience

06/2021 – 01/2022
Toronto, Canada

Cloud Consultant **Long View Systems**

Managed Services Practice Enhancements and Team Development:

- Engineered a GitHub Actions-driven Terraform deployment pipeline template for Azure, reducing manual errors and ensuring consistency across environments.
- Spearheaded mentorship for junior consultants and created technical training materials, facilitating knowledge sharing and reuse.

11/2020 – 06/2021
Toronto, Canada

Cloud Consultant **Sourced Group (An Amdocs Company)**

Azure Infrastructure Engineering for Canadian Federal Government Agency:

- Leveraged modern software development practices to codify cloud landing zone configurations with Terraform and Terragrunt, ensuring scalable and efficient infrastructure setup.
- Played a key developer role in the successful integration of pathfinder applications into the Azure landing zone through a pilot program, demonstrating its capability to support material workloads.

02/2019 – 11/2020
Toronto, Canada

Professional Services Consultant **Scalar Decisions (A CDW Company)**

Hybrid IT Virtualization & Infrastructure as Code (IaC) Implementation:

- Led hybrid IT virtualization initiatives utilizing Nutanix, VMware, NetApp, and Azure for clients across health care, financial services, and public sectors.
- Developed a reusable Terraform module for Azure transit infrastructure with Palo Alto NGFW integration, designed to streamline deployment processes for internal company use.

09/2014 – 02/2019
Toronto, Canada

Technical Architect **Long View Systems**

Professional Services Delivery & BizDev Contributions:

- Led the hands-on deployment of hybrid IT solutions leveraging VMWare, NetApp, and Azure.
- Contributed to business development by engaging in RFP responses, workload assessments, and POC presentations.

10/2013 – 04/2014
Toronto, Canada

Senior System Administrator **LoyaltyOne**

Linux System Administration & Customer Support Excellence:

- Managed Linux system administration and automated infrastructure provisioning through shell scripting within a change management framework.
- Provided rotating on-call support, delivering consistently exceptional customer service.

09/2008 – 10/2013
Waterloo, Canada

Linux System Administrator **BlackBerry**

On-prem Data Center Installation:

- Contributed to the deployment of a large-scale on-prem data center for BlackBerry across multiple service regions. This involved installing blade servers, RHEL configurations with Puppet, and integrating enterprise storage solutions from EMC, NetApp, and Brocade. The project supported millions of BlackBerry subscribers.

Education

09/2005 – 08/2008
Toronto, Canada

Computer Systems Technology | 3-yr diploma **Seneca College**