

# ADHISH MAHESWARAN

Toronto, Ontario CA

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Cloud/DevOps Engineer with 2+ years of experience in cloud infrastructure automation, DevOps methodologies, and security tooling. Experienced in Terraform, Ansible, and Kubernetes, and most proficient with AWS and VMware vCenter.

## Experience

### Shared Services Canada — Services partagés Canada · IT-02

Aug 2024 – Present

*DevOps Engineer-Multi-Domain Automation Services*

*Toronto, Ontario*

- Created Ansible Playbooks that automate the deployment of VMs and the instance creation of applications, thus replacing manual VM deployments in our vCenter
- Provisioned and optimized application tools in development environments, including Ansible Platform, GitLab, Active Directory, within vCenter, enhancing service reliability and streamlining production updates
- Deployed and configured Backstage, a service portal framework, to create a front-end interface for non-technical skilled clients to leverage our teams' ansible playbooks

### Solace · Co-op

May 2023 – Aug 2023

*Software Developer-Cloud-Infra*

*Ottawa, Ontario*

- Led security improvements by integrating static IAC tools such as tfsec and checkov scans across Terraform Modules, through Github Action integration
- Created and added Open Policy Agent (OPA) policies to Atlantis Terraform Pull Request automation, policy enforcement, delivering personalized security improvements to our CI/CD
- Documented and resolved 10+ security warnings and vulnerabilities detected by the implemented static scan tools

### Solace · Co-op

May 2022 – Aug 2022

*Software Developer-Cloud-Infra*

*Ottawa, Ontario*

- Authored Terraform modules to replace AWS CloudFormation, conducted rigorous testing, and supported a seamless migration from AWS
- Leveraged Kubernetes for implementing blue-green deployments of HashiCorp Vault (a secret management tool), enabling zero-downtime service transitions
- Developed and executed scripts using Vault APIs and Python to conduct Infrastructure Reliability Testing, making sure all secrets and paths were unaffected by migration

### Shared Services Canada — Services partagés Canada · Co-op

Sep 2021 – Dec 2021

*Junior Software Dev*

*Ottawa, Ontario*

- Designed and implemented Ansible playbooks to automate the configuration of remote servers, created proof-of-concept (POC) solutions, and demonstrated web application deployment processes
- Streamlined the deployment of remote servers using vRealize Automation, reducing manual intervention

### Canadian Food Inspection Agency · Co-op

Jan 2021 – Apr 2021

*Junior Software Dev*

*Ottawa, Ontario*

- Documented the setup, configurations, and custom scripts or extensions utilized in Azure Pipelines to ensure clarity and reproducibility
- Designed and configured pipelines to automate testing, ensuring reliable and efficient software delivery processes.

## Education

### University of Ottawa

Sep 2019 – May 2024

*Bachelor of Applied Science Software Engineering (Engineering Management and Entrepreneurship)*

*Ottawa, Ontario*

## Certificates/Screenings

**HashiCorp Certified: Terraform Associate (003)** Understanding basic concepts, skills, and use-cases of Terraform

**AWS Certified Cloud Practitioner** fundamental understanding of IT services and their uses in the AWS Cloud

**Machine Learning Skills Challenge August 2023** Microsoft Azure - Applying AI models to pipelines

**Basic Reliability Screening Govt of Canada** Security Clearance

## Volunteer Experience

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### Fitshare, Full-Stack Developer | *MERN Stack*

**Jan 2023 – Dec 2023**

- Developed a comprehensive web application tailored to the needs of personal trainers, leveraging the MERN stack for seamless performance
- Built responsive and visually appealing front-end interfaces using TypeScript and Tailwind CSS, ensuring optimal user experience across devices
- Implemented automated reliability testing for front-end components with Selenium, enhancing overall application stability

### Software For Love, Full-Stack Developer

**Apr 2021 – Dec 2021**

- Engineered high-performance websites using Gatsby, a React-based framework, achieving faster loading times and improved user interaction
- Collaborated on creating detailed design mock-ups in Figma, translating client requirements into intuitive, visually appealing web interfaces

## Technical Skills

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**Programming Languages:** Python, Java, JavaScript, TypeScript, YAML, Shell Scripting

**Infrastructure as Code (IaC):** Terraform, Ansible, AWS CloudFormation

**Cloud Platforms:** AWS, Google Cloud Platform (GCP), VMware vSphere/vCenter

**Containerization and Orchestration:** Docker, Kubernetes

**Version Control and CI/CD:** GitHub, GitLab, Atlantis, Jenkins, Azure Pipelines

**Security Tools:** HashiCorp Vault, Checkov, TFSec, Open Policy Agent (OPA)

**Frontend Frameworks and Libraries:** React.js, Gatsby, Tailwind CSS

**Developer Tools:** VS Code, Jira, Figma, Selenium