

Brandon Gallagher

AI Platform Engineer | Azure SME | Terraform Specialist

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SUMMARY

High-Agency AI Platform Engineer specialized in building resilient cloud infrastructure and agentic control planes for enterprise-scale AI deployments. Deep competency in engineering secure agentic harnesses within hub-and-spoke architectures, ensuring strict containment, deterministic boundaries, and automated governance for LLM workloads. Combines 8+ years of core infrastructure execution—including Landing Zones via Terraform and geo-redundant systems serving 30M+ users—with a proven ability to automate strict compliance frameworks (PCI-DSS, SOC 2, NIST) natively into CI/CD pipelines, slashing audit findings by 95% and optimizing annual cloud spend by \$3M+.

WORK EXPERIENCE

Senior AI Platform Engineer, *RAVL.io*

Oct 2023 – Present | Remote, Canada

Clients: Scotiabank, CIBC, Haventree Bank, Interac

- Engineered an enterprise-ready AI Agentic Control Plane for a Greenfield project.
- Led the technical strategy for a 10-person Platform Engineering team for 160+ repositories from GitHub Enterprise to GitHub Cloud, enforcing strict org-level governance including SSO, SAML, and RBAC.
- Spearheaded the shift to GitHub Actions, implementing a custom AI-driven auto-remediation layer that resolved 90% of CI/CD pipeline failures without human intervention, saving 1,200+ engineering hours annually.
- Architected a self-service Internal Developer Platform (IDP) that reduced developer onboarding time from 2 weeks to 4 hours, enabling the department to scale output by 30% without increasing headcount.
- Collaboratively led a 5-person engineering team across 3 different time-zones in the design and execution of a neobanking infrastructure strategy, delivering security-hardened, Hub-and-Spoke Azure landing zones compliant with PCI-DSS, SOC 2, and NIST 800-53.
- Architected geo-redundant workload distribution using Azure Front Door and multi-region origin groups, directing the team in the implementation of WAF-integrated routing and multi-site listeners to achieve a 99.99% SLA for core banking APIs.
- Directed the automation of infrastructure and compliance guardrails via Terraform Cloud and Sentinel policies, achieving 95% policy compliance and reducing Microsoft Defender findings by 85%.
- Oversaw the migration of core workloads to Azure Container Apps, implementing a custom horizontal auto-scaler based on transaction volume, reducing idle compute costs by \$450k/year.
- Established an AWS Integrated Landing Zone using Control Tower, streamlining the onboarding of new AWS accounts and ensuring consistent governance in Security Hub.
- Managed production banking-grade Kubernetes (AKS) cluster deployments through Helm Charts with automated RBAC provisioning, security patch orchestration, and CVE remediation workflows, ensuring PCI-DSS/SOX compliance while maintaining 99.99% multi-region uptime and operational efficiency.
- Successfully migrated multiple high-impact financial projects from on-premise environments to Azure & AWS, enhancing the transaction experience for over 30 million Canadians with improved scalability and reliability.

Senior DevOps Engineer, *TELUS*

Sep 2021 – Sep 2023 | Remote, Canada

- Led the DevOps initiative for a high-impact agriculture project with annual revenue exceeding \$50 million, orchestrating the design, implementation, and optimization of the infrastructure and deployment pipelines. Achieved enhanced system reliability, scalability, and cost-efficiency, contributing significantly to the project's overall success.

- Implemented industry-standard security practices in Azure Kubernetes Services (AKS) by configuring and managing Azure Role-Based Access Control (RBAC) policies, ensuring strict access controls and authorization protocols to safeguard critical resources and data.
- Orchestrated the design and implementation of robust Azure Cloud infrastructure, including load balancers and resource scaling strategies, to effectively manage and optimize high-traffic systems serving a clientele of over 70,000+ employees, ensuring seamless performance and availability.
- Streamlined and fortified our CI/CD pipeline by seamlessly integrating NPM audits, ensuring early detection and resolution of security vulnerabilities in our JavaScript-based applications, thereby enhancing the overall reliability and security of our software products.

DevOps Engineer, Deloitte

Jan 2020 – Sep 2021 | Remote, Canada

- Implemented a TypeScript microservice to enhance data integrity, and security by validating and verifying data streams from egress topics within the Kafka ecosystem.
- Championed the development of software solutions to meticulously verify data integrity within Canada Post's delivery pipeline, a pivotal role in a high-impact project that enhanced efficiency, ultimately impacting 35,000,000+ Canadians.

DevOps Engineer, Royal Bank of Canada (RBC)

Apr 2019 – Dec 2019 | Toronto, Canada

- Enhanced bank security measures by incorporating SonarQube into the DevOps pipeline to perform comprehensive vulnerability scans on microservice containers, proactively identifying and mitigating security risks, thereby bolstering the resilience of our financial applications against potential threats.
- Implemented automation for more than 1200 monthly reactivation tickets by developing a Node.js microservice hosted on OpenShift Container Platform.

Emerging Technologies Developer, Ontario Tech University

Sep 2018 – Apr 2019 | Oshawa, Canada

SKILLS

Cloud: Azure, AWS, Hashicorp Cloud, GCP

AI: LangGraph, Kong AI Gateway, vLLM

Infrastructure as Code: Terraform (Cloud, Enterprise)

CI/CD: GitHub Actions, Azure DevOps

Container Orchestration: Kubernetes, Helm, Docker

Monitoring & Observability: Prometheus, Grafana, Loki, Splunk, SonarQube, Snyk, Application Insights + Diagnostics

Programming Languages + Scripting: TypeScript, Python, Bash

Databases + Streaming: Apache Kafka, Postgres, MongoDB

Frameworks: Node.js, Nest.js

EDUCATION

Computer Science (3.9 / 4 GPA), Georgian College

2017 – 2020 | Barrie, Canada