Pierre-Stéphane Voltaire

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Summary

Senior DevOps Engineer with 7 years of experience architecting cloud-native infrastructure, implementing **Infrastructure as Code**, and building scalable **CI/CD** pipelines. Improved system uptime by automating manual deployments and migrating workloads to high-availability architectures. Collaborate with development teams to identify and resolve application bottlenecks, enabling cloud-friendly refactoring initiatives. Strong coding background with proficiency in **Python**, **Go**, **JavaScript** and **Java** combined with extensive experience with Infrastructure as Code using **Terraform**, **AWS CDK** and **CloudFormation**. Hands-on experience across **AWS** infrastructure including serverless technologies (**Lambda, Step Functions**), traditional compute (**EC2**), and container orchestration (**ECS**, **Kubernetes**), with ongoing **Azure** experience.

Skills

Programming & Scripting: Java, TypeScript, JavaScript, Golang, Python, Bash, Powershell, SQL
Development library & Frameworks: Spring Boot, Flask, Gin, Vue.js, Angular, ReactJS
CI/CD: CodeDeploy, CodePipeline, CodeBuild, CircleCI, GitHub Actions, Jenkins, GitLab CI, ArgoCD, Hashicorp Vault
Infrastructure as code: Terraform, Terragrunt, AWS CDK, Cloudformation
Containerization & Orchestration: Docker, Podman, Docker Compose, Helm, ECS, Fargate, Kubernetes
Security & Compliance: Wiz, Snyk, SonarQube
Monitoring & Observability: Datadog APM, CloudWatch
Identity Provider: AWS Cognito, Microsoft Entra, Keycloak

Experience

Senior Platform Engineer, Mitsubishi UFJ Financial Group Investor Service – Toronto, ON, CA   Mar 2021 – Present

- **Developed cloud-native applications** including a FastAPI (Python) GitLab backup solution protecting ~**1,000 repositories** against extended outages, with deployment orchestrated through ArgoCD and Kustomize for flexible environment management.

- **Automated EKS cluster upgrades** for **20+ production clusters** using GitLab CI and Terraform, eliminating manual operations and **reducing AWS extended support costs by $6K/month**.

- **Architected and implemented CI/CD pipelines** using GitLab CI, CodeDeploy, and custom Python/Bash/Powershell automation scripts, **reducing production deployment time by 94%** from hours to minutes.

- **Developed** secure and efficient **processes and tools for managing secrets and injecting application** configurations using Jenkins and Lambda functions in Python and Node.js.

- **Led security hardening initiatives** during the migration of Java and .NET web applications to AWS, **aligning with SOC 2 compliance** by enhancing network security with HTTPS and ACM certificates, encrypting EFS storage with AWS KMS, and utilizing IAM for access control enforcement.

- **Migrated legacy source control systems** from TFS and SVN to GitLab, ensuring seamless version control transition and implementing GitOps workflows.

- **Optimized artifact management** across Sonatype Nexus, GitLab, and Amazon ECR for Java, .NET, Python packages and Docker images, improving deployment reliability.
- **Provisioned cloud environments** for greenfield applications using Infrastructure as Code tools including CloudFormation, Terraform, and AWS CDK, enabling rapid scalable deployments.
- **Enhanced observability** by integrating Datadog APM into native cloud applications, **accelerating troubleshooting** and improving performance visibility.

FullStack Developer, Airborne App – Oakville, ON, CA   Aug 2020 – Mar 2021
- **Developed microservices** in Go that integrate with multiple AWS services including S3, Lambda, RDS, and API Gateway, **focusing on scalable backend architecture**.
- **Built automated CI/CD pipelines** leveraging GitHub Actions and Terraform to automatically lint code, execute unit and integration tests for pull requests, and **reduce production bug introduction**.
- Created ephemeral testing environments using GitHub Actions, Terraform, and S3, **accelerating frontend validation processes** and streamlining collaboration between developers and product owners.

FullStack Developer, EllisDon – Mississauga, ON, CA   May 2019 – Apr 2020
- **Developed and maintained full-stack applications** using ReactJS, Spring Boot (Java), Express (Node.js), NestJS (TypeScript), and MongoDB, ensuring seamless feature integration and enhanced code maintainability.
- **Implemented automated CI pipelines** for unit testing and code quality enforcement using linting tools, improving project maintainability and reducing technical debt.

Certifications

HashiCorp Certified: Terraform Associate (003) (HCTA0-003)	June 2025 – June 2027
AWS Certified Solutions Architect - Professional (SAP-C02)	In Progress

Education

Sheridan College, Bachelor of Computer Science – Mobile Computing	Sept 2016 – Apr 2020
Sheridan College, Computer Systems Technician – Software Engineering	Sept 2014 – Aug 2016