

DAVID PROSPER ISINGUZO

Cloud DevOps Engineer

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PROFESSIONAL SUMMARY

DevOps Engineer with production experience designing and operating large-scale cloud infrastructure on AWS, automating CI/CD pipelines, and improving developer experience for fast-moving engineering teams. Works at the intersection of infrastructure automation, platform reliability, and process improvement, identifying bottlenecks in development and deployment workflows and building automated solutions that increase delivery speed and reduce manual effort. Applies a GitOps and Infrastructure as Code first approach using Terraform and Ansible, manages containerised workloads with Docker and Kubernetes, and enforces continuous security practices across the full platform. Comfortable working across multiple concurrent projects, collaborating with developers and architects, and owning both the infrastructure and operational layer end to end.

TECHNICAL SKILLS

Cloud Platforms	AWS (EC2, VPC, IAM/IRSA, EKS, RDS, ECR, S3, Route53, ACM, CloudWatch) · Microsoft Azure (Azure DevOps, MySQL Flexible Server)
Containers & Orchestration	Docker, Docker Compose, Kubernetes, Helm
Infrastructure as Code	Terraform (modular, remote state/backend), Ansible
CI/CD	GitHub Actions (OIDC, Semgrep, Trivy, Checkov), Azure DevOps Pipelines
Monitoring & Logging	Prometheus, Grafana (kube-prometheus-stack), CloudWatch
Operating Systems	Ubuntu Linux, Bash scripting
Networking	DNS, TCP/IP, Load Balancers (ALB), Reverse Proxy (Nginx), external-dns
Version Control	Git, GitHub (PR-gated Git flow, feature→dev→main)
Programming / Scripting	Python, Bash, JavaScript/TypeScript, YAML
Databases	PostgreSQL, MongoDB, MySQL
Soft Skills: Communication, problem-solving, teamwork, adaptability, attention to detail	

PROFESSIONAL EXPERIENCE

DevOps Engineer	Jan 2026 – Jun 2026
The CloudAdvisory Oy Helsinki, Finland (Remote)	
- Provisioned large-scale AWS infrastructure (VPC, EKS, RDS, ECR, IAM/IRSA, Route53, ACM) with modular Terraform and Ansible on S3 remote state with DynamoDB locking, cutting new environment provisioning from several days to under 30 minutes. - Designed and maintained GitHub Actions CI/CD pipelines (Semgrep SAST, Maven tests, Docker builds, Trivy scans with a hard fail on HIGH/CRITICAL CVEs, Helm deploys) with branch-based routing to dev and production. - Managed Kubernetes manifests and Helm charts for 9 Spring Boot microservices (Deployments, Services, NetworkPolicies, PDBs, HPAs) across isolated development and production environments on Amazon EKS. - Deployed Prometheus and Grafana via kube-prometheus-stack, giving the engineering team real-time visibility across 30+ Kubernetes workloads and enabling proactive incident detection. - Migrated 20+ application secrets to AWS Secrets Manager via External Secrets Operator and IRSA, eliminating plaintext credential exposure, and remediated HIGH/CRITICAL CVEs across Tomcat, Netty, Spring Cloud Config, Spring AI, and MCP Core. - Diagnosed CrashLoopBackOff and init-container failures by tracing pod events and tuning liveness/readiness probes, resolving production incidents without escalation. - Wrote Python and Bash automation for infrastructure provisioning, secret rotation, and pipeline tooling; enforced PR-gated Trivy/Checkov scanning with Terraform plan output auto-posted to every PR.	
DevOps Micro-Intern – Agentic AI Pipelines	Jan 2026 – Jun 2026
DMI Cohort-2 (Program lead: Pravin Mishra) Remote	
Built a production agentic DevOps pipeline with Claude Code on Linux: 4 reusable Terraform automation skills, 3 autonomous subagents (security auditor, Terraform writer, cost optimiser), and safety hooks.	

- Deployed an AWS S3 and CloudFront delivery pipeline end to end through the agentic workflow, documenting all security audit findings as structured runbooks and architecture decision records.
- Served as assistant team lead on the group's Spring PetClinic microservices deployment (see Projects).

PROJECTS

Spring PetClinic Microservices – DMI Cohort-2 Group Project (Assistant Team Lead)

- Deployed a Spring Boot microservices suite to AWS EKS using Terraform, ArgoCD, GitHub Actions, and Helm across a dual-repo GitOps pattern (app + infra repos), removing manual promotion steps between environments.
- Wired External Secrets Operator with IRSA against RDS MySQL to eliminate plaintext credentials, and authored Git workflow documentation, architecture diagrams, and a deployment playbook adopted by the rest of the team.

theepicbook – Azure Three-Tier Deployment

- Delivered two independently versioned CI/CD pipelines (Terraform + Ansible) on a three-tier Azure architecture, with Nginx reverse proxying, PM2 process management, and Sequelize ORM against Azure MySQL Flexible Server.
- Diagnosed a silent SSL failure between Node.js and Azure MySQL Flexible Server through runtime log analysis, a bug both pipelines had reported as successful, and documented the fix as a team runbook.

Three-Tier AWS Infrastructure

- Architected a modular three-tier AWS application (VPC subnetting, IAM, ALB, DNS, SSL) with EC2, RDS MySQL, and public/internal ALB segmentation enforced through security groups.
- Resolved a Terraform security-group dependency cycle via aws_security_group_rule refactoring and terraform import, with zero manual state edits.

Agentic AI DevOps Pipeline

- Built an automated Python/Bash pipeline orchestrated by Claude Code with custom subagents and safety hooks, collapsing multi-step Terraform workflows into single-command execution.

Linux Systems Chaos Engineering Drill

- Ran failure injection (disk, CPU, memory, network) against a live EC2 instance across four fault domains to pressure-test incident-response methodology, with storage triage and root-cause diagnosis as the fastest, most reliable recoveries.

KEY ACHIEVEMENTS

- Designed and operated a production AWS platform supporting 9 microservices and 30+ Kubernetes workloads across isolated development and production environments, maintaining high availability with no unplanned outages.
- Reduced new environment provisioning from several days to under 30 minutes by delivering reusable, modular Terraform and Ansible infrastructure with remote state management and DynamoDB locking.
- Eliminated plaintext credential exposure across all environments by migrating 20+ application secrets to AWS Secrets Manager via External Secrets Operator and IRSA.
- Built GitHub Actions CI/CD pipelines with automated Semgrep SAST, Trivy image scanning, and Checkov policy gates, enabling engineering teams to ship new code daily with security compliance enforced on every push.
- Improved developer experience by automating deployment workflows, posting Terraform plan output as PR comments, and enforcing branch-based environment routing, reducing manual deployment effort across the team.

EDUCATION

B.Sc Computer Science
University of the People

2026 – Present

CERTIFICATIONS

- KCNA: Kubernetes and Cloud Native Associate (valid through 2028) – CNCF
- LFS250: Kubernetes and Cloud Native Essentials – The Linux Foundation
- LFS158: Introduction to Kubernetes – The Linux Foundation
- DevOps for Beginners: Docker, Kubernetes, AWS & Azure + 4 Projects – Udemy
- Claude 101 – Anthropic