

Brian Steve Garnica Sandoval

DevOps / Platform Engineer | AWS | Linux | Terraform | Docker | CI/CD | Observability

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Profile

DevOps / Platform Engineering professional with hands-on experience in Linux operations, deployment automation, software delivery, and restricted enterprise environments. Experienced with RHEL, Ansible, Bash, Git workflows, troubleshooting, and controlled deployments aligned with ISO 27001 and least-privilege practices. Hands-on experience with AWS, Terraform, Docker, GitLab CI/CD, GitHub Actions, and observability with Prometheus, Grafana, and Loki. Software engineering background in Python, Django, FastAPI, REST APIs, and PostgreSQL.

Technical Skills

Cloud: AWS EC2, S3, IAM, CloudWatch, SNS, AWS Budgets and alerts

IaC / Automation: Terraform, Ansible, Bash, systemd timers

Containers: Docker, Docker Compose, Dockerfiles, container networking, volumes, logs

CI/CD: GitLab CI/CD, GitHub Actions, linters, tests, SAST, Trivy, branch protection

Linux / Servers: RHEL, Ubuntu Server, permissions, services, controlled deployments, troubleshooting

Observability: Prometheus, Grafana, Loki, Promtail, CloudWatch, application metrics, dashboards, centralized logging

Backend: Python, FastAPI, Django, REST APIs, PHP, JavaScript

Databases: PostgreSQL, SQL

Security: Least privilege, ISO 27001, IAM, access control, SAST, secure secrets handling

Networking: DNS, HTTPS/TLS, Nginx reverse proxy, Cloudflare, ports, security groups

Professional Experience

INDUMIL - Software Engineer

May 2025 - Present

- Develop and deploy backend applications and internal services in enterprise Linux environments, mainly RHEL.
- Configure and maintain on-premise Git workflows using server-side bare repositories, access controls, and Bash-based validation and deployment automation.
- Automate configuration and deployments across development and QA environments using Ansible in restricted on-premise infrastructure.
- Troubleshoot backend applications, Linux services, deployment failures, dependencies, and runtime issues across institutional systems.
- Operate applications with controlled dependencies and deployments in environments without open internet access.
- Standardized institutional software development practices by updating procedures with Git workflows, automated validations, secure coding, access control, and deployment governance aligned with ISO 27001.
- Identified observability and reliability gaps in the institutional website, defined monitoring requirements for an externally implemented SolarWinds solution, and coordinated application and infrastructure improvements that improved site availability and reduced recurring outages.
- Mentor three software development interns through development and operational tasks, providing technical guidance and reinforcing engineering practices.

INDUMIL - Temporary Assignment | L2 Support and Software Development Engineer

February 2025 - May 2025

- Provided second-level technical support and troubleshooting for enterprise applications and operational users.
- Supported development, maintenance, and technical fixes for internal applications.
- Assisted with application-level incident resolution and day-to-day operation of institutional systems.

Projects

SimOps - Observability & Operations Platform

AWS, Docker, Nginx, Prometheus, Grafana, Loki

- Designed and deployed a multi-service platform for observability, failure simulation, and operational troubleshooting on AWS EC2.
- Containerized application, database, simulator, and observability services using Docker Compose, with Nginx as a reverse proxy.
- Configured HTTPS with Let's Encrypt, Certbot, DNS, and Cloudflare proxying.
- Implemented application observability with Prometheus metrics, Grafana dashboards, Loki/Promtail centralized logging, health checks, and latency monitoring.
- Built GitHub Actions validation workflows for linting, automated tests, security checks, Docker Compose validation, and container builds.
- Automated PostgreSQL backups with systemd timers and Amazon S3 and validated restoration procedures.

OmniBank - Cloud-Native DevOps MVP

AWS, Terraform, GitLab CI/CD, Docker

- Implemented an academic banking chatbot MVP with FastAPI backend and Streamlit frontend.
- Provisioned an AWS EC2 environment with Terraform, including security groups, variables, outputs, bootstrap via user data, and remote state integration.
- Dockerized backend and frontend and deployed them with Docker Compose.
- Built a GitLab CI/CD pipeline for linting, testing, image build, registry publishing, and Terraform-based deployment.
- Integrated AWS IAM instance profiles and CloudWatch monitoring without embedding long-lived access keys in the instance.

SuperQTAS - Lightweight ERP & Release Automation

Google Apps Script, JavaScript, GitHub Actions, clasp

- Built a lightweight ERP for sales, purchases, costs, inventory, production, and structured operational workflows.
- Separated QA and production using independent Apps Script projects and controlled Git branches.
- Automated QA deployment and validation with GitHub Actions, smoke tests, and application test suites.
- Implemented controlled production releases with `clasp` and manual deployment after QA validation.

Education

Aeronautical Engineering - Escuela de Aviacion del Ejercito

2019 - 2024

Additional Training

DevOps Diploma - Universidad Nacional de Colombia

2026

DevOps practices, CI/CD, infrastructure as code, Terraform, Ansible, Docker, GitLab CI/CD, observability, incident analysis, and postmortems.

Complementary Certifications and Courses

- UiPath Certified Professional Automation Developer Associate.
- Agile Software Project Management.
- AI-assisted Software Engineering.
- Artificial Intelligence with ChatGPT, DALL-E, and Hugging Face.
- Change Management Diploma.

Languages

Spanish: Native. **English:** B2 - Cambridge FCE.