Felipe Oliveira

SENIOR PRINCIPAL SITE RELIABILITY ENGINEER · OCI PLATFORM · DEVOPS AUTOMATION & OBSERVABILITY

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PROFILE

Reliability-focused software engineer with 20+ years in engineering and technology, including 10+ years in cloud infrastructure, automation, and production operations. OCI expertise includes Terraform, region builds, deployment orchestration, CI/CD, observability, and public-facing services. Turns complex reliability, networking, and security challenges into practical improvements.

CORE EXPERTISE

Reliability engineering
Availability, scalability, resilience, auto-healing, capacity, and performance.

OCI & infrastructure automation
Terraform, region builds, infrastructure and application deployment orchestration.

Observability & diagnostics
Monitoring, alerting, troubleshooting automation, health and state diagnostics APIs.

Cloud, security & networking
OCI, Docker, CI/CD, security remediation, patching, and latency / throughput optimization.

PROFESSIONAL EXPERIENCE

Oracle — Senior Principal Site Reliability Engineer
Oct 2026 – Present

Dartmouth, Nova Scotia, Canada

- Promoted following an Outstanding performance evaluation.

Oracle — Principal Site Reliability Developer
Oct 2024 – Oct 2026

Dartmouth, Nova Scotia, Canada

- Own reliability and production operations for OCI DBTools / Developer Services supporting public-facing and enterprise applications, including FreeSQL, Oracle APEX, PeopleSoft, APEX/ORDS, and AI Database services.
- Lead containerization and deployment orchestration for DBTools enterprise services; build and improve CI/CD pipelines.
- Serve as a Terraform, security, networking, and Docker SME; consulted with more than 30 core teams participating in touchless region builds.
- Drive improvements in scalability, availability, observability, and security across OCI infrastructure and application deployments.

Oracle — Senior Software Developer (IC3), Reliability / DevOps
Nov 2020 – Oct 2024

- Built automation for OCI region builds and cloud operations, helping service teams bootstrap new regions globally and troubleshoot complex deployment and platform issues.
- Developed APIs enabling network resilience and auto-healing, reducing operational toil and improving reliability.
- Delivered a shared-account tenant cost re-routing solution that reduced cost by approximately 90%.
- Created network interception and monitoring tooling to improve high-latency throughput and network visibility; served as Security Champion, resolving findings, patching systems, and reviewing security posture.
- Built data-lake fetching and data-cleansing workflows using Apache Spark.

EARLIER EXPERIENCE

Evertz — Team Lead / Project Engineer

Sep 2018 – Nov 2020

Burlington, Ontario, Canada

- Led a team of project engineers delivering cloud systems for major broadcast customers, including FOX and NBC.
- Deployed, integrated, and configured systems; developed automation and integration code in Python and JavaScript.
- Supported AWS-based deployments, XML/XSLT transformations, database reporting, and stakeholder workflow modelling.

Pexcor Manufacturing — Shift Supervisor / Mixing & Extrusion Technician

Jan 2017 – Jul 2018

Calgary, Alberta, Canada

- Provided shift supervision and quality control in PEX-a extrusion operations.

Petrobras — Reservoir Engineering Data Analyst & Software Developer

Sep 2008 – Sep 2016

Natal, Brazil

- Developed automated, database-synchronized reporting and analytical studies that informed production strategy and asset-value optimization.
- Created Java applications for probabilistic economic optimization and production forecasting under economic constraints; the forecasting tool became a corporate standard for forecasting and reserves evaluation.
- Developed a production-forecasting application based on fractional flow in water-flooded oilfields and built numerical simulation / history-matching models using the CMG Suite.

Brazilian Army — Oracle DBA / Military Engineer

Jan 2005 – Dec 2007

Brasília, Brazil

- Led Oracle database administration and infrastructure maintenance; audited access and grants, supervised backup and restore simulations, and performed database and network-performance tuning.

Universidade de Brasília — Electronics Engineering Assistant Professor

Jan 2006 – Dec 2007

- Mentored students in MCU programming, interrupts, peripherals, debugging, and hands-on laboratory work.

EDUCATION

M.S., Petroleum Engineering
Universidade Federal do Rio Grande do Norte · 2015–2016

B.A.Sc., Electrical & Electronics Engineering
Instituto Militar de Engenharia · 2000–2004

Reservoir Engineering Professional Training
Universidade Petrobras · 2008–2009

Electronics Technician
CEFET Celso Suckow da Fonseca · 1996–1999

CREDENTIALS & PROFESSIONAL DEVELOPMENT

Oracle Cloud Infrastructure 2025
Certified Generative AI Professional

Additional learning
AI for Everyone · Generative AI for Everyone

TECHNICAL PUBLICATION

Probabilistic economic optimization
Java application and related work documented in SPE Paper 174427