

Gabriel Felipe Guarnieri

SOFTWARE ENGINEER | QA & TEST AUTOMATION | PYTHON / BACKEND | DEVSECOPS

Dois Vizinhos, PR, Brazil | Open to remote, hybrid or on-site work

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Professional Summary

Software Engineer (B.S., UTFPR, 2026), with professional QA experience as an ERP Software Tester at PRECISA Software (May–August 2026) and a focus on backend, testing and security. My capstone TerraVault is a hybrid Terraform security scanner — a deterministic rule engine paired with a machine-learning detector, shipped as a tested, CI-gated REST API. Alongside it I built a B2B marketplace backend in Node.js/TypeScript, a personal project with its own test suite, and an academic attack-and-detection lab on Google Cloud provisioned as code. Full professional proficiency in English.

Technical Skills

Testing & QA: Functional, regression, integration, performance & API testing; test case design & execution; defect lifecycle & fix validation (homologation/UAT); SQL data validation; test documentation & evidence; Pytest, Cypress, Playwright, Jest + Supertest, Postman.

Backend & Data: Python (FastAPI, Flask, SQLAlchemy, Boto3), Node.js/Express, TypeScript, Ruby on Rails, SQL, Bash; REST/OpenAPI design, JWT auth, RBAC, rate limiting; PostgreSQL, Redis; React.

Cloud & DevOps: AWS (EC2, S3, RDS, IAM, Lambda), Google Cloud, PySpark, Terraform, Docker, Linux, GitHub Actions (CI/CD), Prometheus, Grafana.

Security & DevSecOps: Bandit, pip-audit, GitLeaks, Trivy, SBOM (CycloneDX), SARIF v2.1.0; SonarQube Web API integration; Nmap, Wireshark, sqlmap, Fail2Ban in isolated authorized labs; Cyber Kill Chain and NIST SP 800-61; IAM least privilege, LGPD.

Practices & Languages: Clean Architecture, SOLID, code review via Git/GitHub pull requests, Scrum/Kanban. Portuguese (Native), English (Full professional proficiency).

Professional Experience

PRECISA Software

Dois Vizinhos, PR

ERP SOFTWARE TESTER (QA)

May 2026 – Aug. 2026

- Ran functional, regression and performance tests on fiscal ERP software, validating developer fixes before release and covering the whole screen for regressions across companies, date ranges and filters.
- Provisioned isolated homologation environments from database backups, verified report data with SQL and documented every ticket with versioned, step-by-step evidence.

Compass UOL

Remote

AWS CLOUD DATA ENGINEER INTERN

May 2025 – Oct. 2025

- Built Python/Boto3 automations to provision AWS infrastructure (EC2, S3, RDS, IAM, Lambda) and migrated batch pipelines from Pandas to PySpark, validating data integrity with SQL and applying IAM least privilege.

Procfy

Dois Vizinhos, PR

FULL STACK DEVELOPER INTERN

Nov. 2023 – Nov. 2024

- Collaborated on production features in Ruby on Rails/PostgreSQL — search filters, date-range selectors, dynamic transaction updates — with REST API testing in Postman and SQL data validation.

Serviço de Registro de Imóveis – Dois Vizinhos

Dois Vizinhos, PR

IT ASSISTANT – TECHNICAL FOCAL POINT

Apr. 2021 – Nov. 2023

- Kept the IMOB ERP integrated with external mission-critical systems (SAEC/ONR, e-Notariado, PJe, Projudi) under TJPR oversight, reaching 99%+ availability and zero findings across judicial inspections.

Projects

TerraVault

github.com/oguarni/terravault

HYBRID IAC SECURITY SCANNER – CAPSTONE

Aug. 2025 – 2026

- Combined an 11-rule deterministic engine with an 8-feature Isolation Forest detector: 83% recall within declared rule scope on unseen third-party KICS fixtures, and the only scanner in the set to detect hardcoded secrets.
- Shipped as a REST API (FastAPI async, PostgreSQL, Redis, Prometheus) with SARIF v2.1.0 for GitHub Code Scanning — 200+ pytest cases at 82%+ line coverage, Pylint 10.00/10 and a CI gate whose ratchet fails the build if coverage falls below its recorded floor; detector trained on **35,594 real feature vectors** mined from the Terraform Registry and public GitHub.

CresceBR

github.com/oguarni/crescebr-b2b-marketplace

B2B INDUSTRIAL MARKETPLACE – PERSONAL PROJECT

2025 – 2026

- Built a procurement platform for the Brazilian industrial market in React, Node.js/Express and TypeScript (~68k LOC) with PostgreSQL/Sequelize, three-role RBAC and a quotation engine with tier pricing and automated tax/shipping — covered by 100+ test files carrying 2,200+ tests (Vitest, Jest + Supertest) and a GitHub Actions pipeline.

Cloud Security Lab – GCP

github.com/oguarni/cloud-security-lab-gcp

ATTACK AND DETECTION LAB – ACADEMIC PROJECT

2026

- Provisioned and destroyed an isolated VPC with attacker and target VMs from 4 Bash scripts, reproducing five Cyber Kill Chain techniques — SQL injection, SSH brute force, port scanning, credential harvesting, cleartext sniffing — and answering each with cloud-native detection (VPC Flow Logs, Cloud Logging, Cloud IDS, Packet Mirroring) and Fail2Ban on the target, under a NIST SP 800-61 workflow, on authorized self-owned infrastructure.

Education

UTFPR — Dois Vizinhos Campus

[Dois Vizinhos, PR](#)

B.S. IN SOFTWARE ENGINEERING

Apr. 2022 – Jul. 2026

- Capstone TerraVault, approved by the examining board.