

Sidnei Alves de Souza

Senior Database Administrator, Automation & Multi-Cloud Operations

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Professional Summary

Senior Database Engineer and DBA with 20+ years of experience designing, operating, tuning, and automating mission-critical database platforms across PostgreSQL, SQL Server, Oracle, AWS, Azure, and GCP. Strong fit for Kraken's Senior Database Administrator role, with hands-on expertise in high-throughput database reliability, performance tuning, observability, incident reduction, automation, and cloud-scale operational patterns.

Recent work includes building an AI-driven database observability and intelligence platform using PostgreSQL, pgvector, Python, FastAPI, SQLAlchemy, Pandas, Datadog, Zabbix, Prometheus, Azure DevOps, and Flyway. The platform correlates telemetry, detects anomalies, supports vector similarity search, and automates root cause analysis and risk-based incident prioritization.

Professional Experience

Thomson Reuters Brasil — Senior Database Engineer

March 2024 – Present | São Paulo, Brazil

- Lead technical SQL reviews for globally distributed engineering teams, improving performance, scalability, compliance, and production reliability.
- Advise Agile squads on database architecture, query design, indexing, change control, and operational readiness for high-throughput systems.
- Introduce AI-assisted engineering workflows using GitHub Copilot, Claude Code, and VS Code to accelerate review cycles and improve consistency.
- Design and enforce centralized SQL templates, standards, and best practices to reduce rework and strengthen production quality.
- Provide architectural guidance across AWS, Azure, and GCP environments, balancing reliability, performance, scalability, and cost efficiency.

AI-Driven Database Observability & Intelligence Platform — Personal Project

- Designed and built an AI-driven observability platform for proactive anomaly detection, signal correlation, automated root cause analysis, and risk-based incident prioritization.
- Built Python ingestion and normalization pipelines to process telemetry from Datadog, Zabbix, and Prometheus into structured operational signals.
- Implemented vector similarity search with PostgreSQL and pgvector to detect recurring patterns, correlate incidents, and support knowledge retrieval.

- Automated incident creation and prioritization in Azure DevOps using dynamic risk scoring and operational metadata.
- Developed backend services with Python, FastAPI, SQLAlchemy, and Pandas; built user-facing dashboards using React and Streamlit.
- Managed schema governance and controlled deployments using Flyway migrations and versioning.

Technology stack: PostgreSQL, pgvector, Python, FastAPI, SQLAlchemy, Pandas, React, Streamlit, OpenAI, Claude, Ollama, RAG, Azure DevOps, Flyway, Datadog, Zabbix, Prometheus.

Serasa Experian — Cloud Database Architect Engineer

January 2022 – September 2023 | São Paulo, Brazil

- Designed and implemented cloud-native database solutions across AWS and Azure, including IaaS, PaaS, and SaaS deployment models.
- Managed and optimized Amazon RDS, Aurora, PostgreSQL, MySQL, SQL Server, Azure SQL Managed Instance, DynamoDB, and DocumentDB.
- Led large-scale database migrations using AWS DMS, S3, and parquet-based data architectures to improve scalability and cost efficiency.
- Implemented monitoring, observability, and proactive risk mitigation practices to improve database reliability and reduce operational incidents.
- Defined database architecture standards aligned with performance, security, scalability, and operational governance requirements.
- Provided technical leadership and training to engineering teams on database design, performance tuning, and cloud database best practices.

Equinix Brasil — Managed Services Architecture Senior Analyst

December 2019 – December 2021 | São Paulo, Brazil

- Contributed to DBaaS architecture for enterprise SQL Server and Oracle platforms, supporting managed database services and operational delivery models.
- Participated in DRaaS solution design and validation, aligning architectures with RPO/RTO, security, supportability, and SLA requirements.
- Supported hybrid cloud architectures integrating on-premises platforms with public cloud providers for flexible enterprise deployment models.
- Worked hands-on with SQL Server, Oracle, Nutanix ERA, Azure Site Recovery, AWS CloudEndure, VMware, and managed services tooling.
- Created service architecture standards, operational models, and technical documentation used by delivery and operations teams.
- Partnered with product, engineering, operations, and commercial teams to evolve enterprise managed services offerings.

Equinix Brasil — Hosting Operations Senior Specialist

September 2018 – December 2019 | São Paulo, Brazil

- Improved reliability, observability, and operational maturity for enterprise hosting platforms.
- Tuned Zabbix metrics, triggers, and alert thresholds to reduce alert noise and improve incident response efficiency.

- Diagnosed complex database performance and availability issues using SolarWinds DPA across SQL Server and Oracle environments.
- Implemented Docker-based containerization for workloads using production-ready images.
- Designed a remote data warehouse solution using SQL Server and Microsoft Power BI App Service on Azure.
- Collaborated with security and network teams to centralize FortiGate firewall log observability using ELK.

Equinix Brasil — Hosting Operations Specialist / Senior Hosting Management Analyst

February 2013 – September 2018 | São Paulo, Brazil

- Served as a senior escalation engineer for high-severity incidents across databases, virtualization, operating systems, storage, backup, and network layers.
- Supported SQL Server, Oracle, and MySQL in production hosting environments, resolving performance, availability, and operational issues.
- Provided L3 support for VMware, Hyper-V, Windows, Linux, Dell Compellent storage, CommVault, CA backup tools, and tape library systems.
- Contributed to post-incident analysis, documentation, process improvement, and operational knowledge sharing.

Fundação Faculdade de Medicina — Systems Development Analyst

February 2009 – February 2013 | São Paulo, Brazil

- Supported clinical, laboratory, and administrative systems in a regulated healthcare and research environment.
- Administered Windows Server, Active Directory, WSUS, Linux, Apache, PHP, MySQL, Oracle Database 11g, Postfix, and Zimbra.
- Developed internal applications and automation tools using Delphi and PHP.
- Implemented virtualization, secure remote access, backup/recovery, and endpoint security solutions.

Joardo Distribuidora de Util. Domésticas Ltda — IT Coordinator

March 2003 – June 2008 | São Paulo, Brazil

- Managed IT operations, infrastructure modernization, connectivity, systems, vendors, and support across six retail locations.
- Led migration from Novell to Linux servers, implemented Samba, standardized desktop environments, and improved branch connectivity.
- Developed a Delphi-based telephone billing and cost-allocation system integrated with PBX data via RS-232.
- Implemented internet traffic control and user-based access policies using Samba authentication and SmoothWall.

Technical Skills

Databases: PostgreSQL, pgvector, SQL Server, Oracle, MySQL, Amazon Aurora, DynamoDB, DocumentDB, Azure SQL Managed Instance.

PostgreSQL and data reliability: query tuning, indexing, replication-aware operations, backup/restore, capacity planning, migrations, schema versioning, database standards, and production readiness reviews.

Cloud and infrastructure: AWS, Azure, GCP, AWS RDS, AWS DMS, S3, Azure Site Recovery, AWS CloudEndure, VMware, Hyper-V, Docker, Nutanix ERA.

Observability and operations: Datadog, Zabbix, Prometheus, ELK, SolarWinds DPA, incident management, alert tuning, RCA, risk scoring, dashboards, operational intelligence.

Automation and development: Python, FastAPI, SQLAlchemy, Pandas, React, Streamlit, Delphi, PHP, Flyway, Azure DevOps, GitHub Copilot, Claude Code, VS Code.

AI and vector search: pgvector, embeddings, vector similarity search, RAG, OpenAI, Claude, Ollama, telemetry correlation, anomaly detection, adaptive learning loops.

Certifications

- Oracle Database 11g Administrator Certified Associate
- VMware Certified Professional — Data Center Virtualization 2021
- SCRUM Foundation Professional Certificate
- Microsoft Certified Professional

Education

Centro Universitário Nove de Julho — MBA, Information Technology and Internet, 2012 – 2014

Uninove — Universidade Nove de Julho — Systems Analysis and Development Management, Information Technology, 2006 – 2009