GUSTAVO FERREIRA CABRAL

Full Stack Developer • Data Engineering, Back-end & AI

Salvador, BA, Brazil • (71) 98123-2828 • gugacabral03@gmail.com • github.com/guissx

SUMMARY

Full Stack Developer with 4+ years of experience and a strong focus on data engineering, back-end and AI. I build ETL/ELT pipelines and high-volume data platforms for a regulated online betting operator — from OLTP to OLAP, with Databricks/Spark SQL, a medallion-architecture Lakehouse, and CDC/streaming with Kafka/Debezium — plus the services that consume them: analytics APIs, Go workers and MCP-based agents. I work end to end (data modeling, architecture, development, infrastructure and production) with TDD and Scrum.

TECHNICAL SKILLS

Languages: SQL (Spark SQL, PL/SQL), TypeScript, JavaScript, Python, Go, Java

Data Engineering: ETL/ELT, CDC, batch and streaming pipelines, Lakehouse and medallion architecture (bronze/silver/gold), OLTP and OLAP data modeling and query optimization, data governance and lineage

Back-end: Node.js, NestJS, Fastify, Express, FastAPI, REST APIs, microservices, RabbitMQ (AMQP), BullMQ/Redis

Front-end: React 19, Next.js, Vue/Nuxt, Tailwind CSS, WordPress, Figma

Data Platforms: OLAP: Databricks, Delta Lake, Unity Catalog, Apache Pinot, DuckDB • OLTP: PostgreSQL, Aurora RDS, SQL Server, MongoDB, Supabase (pgvector) • Streaming: Kafka, Debezium, Schema Registry • BI: Metabase, Superset, Power BI

AI / LLM: MCP (Model Context Protocol), Claude API (prompt caching, Batch API), RAG, multi-agent systems, LiteLLM, Open WebUI, Claude Code, n8n

Cloud / DevOps: AWS (EC2, RDS), Docker, Azure, Vercel, Render, Grafana, Git, pnpm + Turborepo monorepos

Practices: TDD, event-driven architecture, web security (SQLi, XSS, CSRF), Auth0, code review, Scrum, full-cycle development

PROFESSIONAL EXPERIENCE

Full Stack Developer (Mid-level) | Esportiva.bet 01/2026 – Present

- **Data engineering (ETL/ELT):** Databricks/Spark SQL pipelines moving data from OLTP sources (Aurora RDS/PostgreSQL) into analytical layers — medallion-architecture Lakehouse (bronze/silver/gold) on Delta Lake + Unity Catalog, scheduled batch jobs and a gold layer materialized in Supabase; OLTP and OLAP data modeling and optimization.
- **Streaming & CDC:** helped design and roll out the new real-time platform — Debezium/Kafka Connect + Schema Registry, Apache Pinot with tenant isolation and a KPI serving layer for the BackOffice; observability with Grafana.
- **Go ingestion worker:** real-time consumer for the Data Replication Service of Altenar (sportsbook provider) over RabbitMQ — AMQP/TLS, quorum queues, manual ack — deployed on AWS with a static IP, built test-first (TDD) with supervised coding agents.
- **Analytics APIs:** Databricks/Spark SQL endpoints on a standardized Fastify service pattern serving two brands — wallet, casino provider performance, fraud detection and real-time TV dashboards.
- **Multi-agent AI platform (OpenClaw):** domain-scoped MCP servers on AWS with aggregation tools to curb hallucination, Claude API with prompt caching and Batch API, and a LiteLLM + Open WebUI layer for technical and business users.
- **Responsible gambling ML:** behavioral anomaly detection for gambling-harm risk across the entire player base, using loss chasing as the core signal and graded re-engagement interventions, integrated with Kafka/Pinot/Databricks and Brazilian SPA/MF requirements.
- **CRM & automation:** n8n + Supabase gamification mission engine with webhook ingestion, player enrichment via the BI API and SMS/email/Slack notifications; automated compliance document generation (COAF).
- **Front-end & security:** React dashboards (RFM matrix), Nuxt widgets, branded Auth0 Universal Login; SQLi/XSS/CSRF hardening and Docker.

Full Stack Developer | CopartnersBank 09/2025 – 02/2026

- Built RESTful APIs and automations for a financial platform with Node.js/NestJS, third-party integrations and deployments on AWS, Render and Vercel; Next.js interfaces, code reviews and full-cycle delivery in an agile team.

Engineering Assistant | RK Engenharia 06/2024 – 06/2025

- Automated and optimized technical and operational processes with Python; rolled out efficiency and reporting tools (Power BI, Excel).

Project Designer, Project Coordinator & Finance Lead | CIMATEC Jr 08/2022 – 04/2024

- Web systems (React, Node.js, TypeScript, Figma) with Scrum while leading multidisciplinary teams; managed sales, finance, client relationships and satisfaction metrics.

PROJECTS

Morphiris — *generative UI SaaS platform (in progress)*

- NestJS (FastifyAdapter), Next.js/React 19, Supabase Postgres + pgvector for RAG, DuckDB and BullMQ/Redis queues, in a pnpm + Turborepo monorepo.

EDUCATION & LANGUAGES

B.Eng. in Computer Engineering | SENAI CIMATEC Final year • Expected graduation: 2026

Relevant coursework: Machine Learning, Digital Signal Processing, Control Systems.

Languages: Portuguese (native) • English (advanced)