

GUILHERME FORTUNA DOS SANTOS

FULL-STACK DEVELOPER | PYTHON, TYPESCRIPT & PLATFORM SYSTEMS

Criciúma, Brazil (Remote • UTC-3 / US EST & EU Overlap) • guilhermefortuna.dev@gmail.com • +55 48 99181-4229
guilhermefortuna.dev • github.com/GuilhermeFortuna • linkedin.com/in/guilherme-fortuna-dos-santos

PROFESSIONAL SUMMARY

Full-stack developer with more than 5 years building software, including 2 years of professional experience across web applications, distributed systems and APIs, data platforms, and cloud infrastructure. Strong across Python (FastAPI), TypeScript (React/Next.js), PostgreSQL, and AWS/Docker. Experienced across end-to-end product delivery—from multi-tenant SaaS platforms and LLM evaluation workflows to secure mTLS regulatory gateways and high-throughput quantitative backtesting engines. Fluent in English (TOEFL iBT 105) with an international academic background.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Go, SQL
Frontend & UI: React, Next.js, Vite, Tauri, Tailwind CSS, TanStack Query, Zustand
Backend & APIs: FastAPI, Node.js, RESTful APIs, PostgreSQL, Redis, Databricks, WebSockets
Cloud & DevOps: AWS (ECS/Fargate, S3, EventBridge), Docker, GitHub Actions, Jenkins, Linux, CI/CD
Data & AI Systems: ETL Data Pipelines, Parquet, Pandas, LLM Tooling & Evaluation
Security & Quality: Mutual TLS (mTLS), X.509/PFX, RSA-SHA256, Pytest, Playwright, Vitest

WORK EXPERIENCE

BRXBET & RICOBET | Software Developer — Integrations & Data Platforms Sep 2025 – Jul 2026 • Remote

- GoSIGAPP Regulatory Gateway:** Architected and deployed a production Go microservice for Brazilian regulatory compliance (SIGAP), implementing mutual TLS (mTLS), RSA-SHA256 payload signing, automated XML validation, and X.509/PFX certificate handling with resilient failure recovery.
- Aegis Fraud Intelligence:** Engineered a full-stack fraud investigation platform using FastAPI, PostgreSQL, Databricks, and Redis; built concurrent ETL synchronization jobs processing high-volume player, financial, and event data to accelerate analyst investigations from hours to sub-minute operational lookups.
- Platform Integrations:** Built integration services and APIs connecting gaming platforms, analytics pipelines, third-party payment providers, and government endpoints with isolated configurations and retry handling.
- Cloud Infrastructure:** Containerized and operated APIs and background worker workloads on AWS ECS/Fargate, S3, and EventBridge with structured logging, alerting, and automated failure recovery.

JONES SOFTWARE | Software Developer / Data Analyst Jul 2024 – Sep 2025 • Remote

- Automated Data Pipelines:** Built Python ingestion pipelines converting unstructured OCR output from insurance certificates into validated, structured datasets used in compliance audit workflows.
- LLM Verification Tooling:** Developed verification and evaluation tooling in Python and Node.js for LLM prompt testing, structural JSON comparisons, concurrent batch processing, and automated reporting.
- Test Automation & Delivery:** Automated test suites using Pytest and integrated workflows with AWS S3 and Jenkins CI pipelines to ensure data integrity and continuous verification.

SELECTED SOFTWARE PROJECTS

Q — Quantitative Research & Execution Platform | Independent Mar 2020 – Present • Independent

- Developed a desktop quantitative research and backtesting platform using Python/FastAPI, React/TypeScript/Tauri, PostgreSQL, and Parquet for market-data ingestion, interactive charting, and paper execution.
- Built distributed parameter discovery pipelines using Optuna and evolutionary algorithms over Redis/Dramatiq worker pools, enforcing strict zero-lookahead causality safeguards across backtests.

Nexo Dental — Multi-Tenant Clinic Management SaaS | Independent 2026 – Present • Independent

- Architected an AI-assisted, multi-tenant dental clinic management platform (React, TypeScript, FastAPI, PostgreSQL) with role-based tenant data isolation, appointment scheduling, and automated clinical workflows.

EDUCATION & INTERNATIONAL EXPERIENCE

Savonia University of Applied Sciences (Kuopio, Finland) & SATC (Brazil) — Mechanical Engineering & Academic Exchange 2014 – 2018
SATC (Brazil) — Software Engineering (In Progress) 2024 – Present
SATC (Brazil) — Technical Diploma in Electromechanics 2011 – 2013

LANGUAGES

English: Native (TOEFL iBT 105) • **Portuguese:** Native