Paulo Fernandes Biao

Systems & Cloud Analyst

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PROFESSIONAL SUMMARY

Systems & Cloud Analyst with 15 years of hands-on experience in electronic security and networked physical systems for banking, retail and corporate environments in Brazil. Background includes CCTV, alarms, monitoring, IP/GPRS communications, remote configuration and fault diagnosis. Now focused on software, cloud architecture and operational observability; postgraduate specialization in Cloud Computing from PUC Minas. Built REST APIs and CI/CD workflows, historically deployed an API to AWS EC2, and designed a Terraform-defined AWS architecture validated without deployment. IEEE Internet of Things Journal Peer Reviewer.

TECHNICAL SKILLS

Cloud & Infrastructure: AWS (EC2, S3, IAM, VPC), Terraform, Docker, GitHub Actions, Linux, CI/CD	**Programming & Backend:** TypeScript, Node.js, Python, REST APIs, SQL, JSON
Data & Web: PostgreSQL, DynamoDB, Prisma, Supabase, Next.js, React, Tailwind CSS	**Physical Security & IoT:** CCTV, alarms, access control, ONVIF, IP networks, RTSP, PoE, NVR/DVR, TCP/IP, GPRS

PROFESSIONAL EXPERIENCE

Electronic Security & Infrastructure Technician / Partner

Sekron / Triunfo Segurança Eletrônica · Brazil · 2005-2020

- Installed, configured and maintained CCTV, alarm and monitoring infrastructure for bank branches, retail and corporate sites, including Banco do Brasil, Caixa, Bradesco and HSBC environments.
- Configured IP networking and GPRS communications, remote monitoring and remote device access across distributed locations.
- Diagnosed faults and integrated cameras, recorders, alarm panels and network equipment; Partner at Triunfo (2007-2018).

SELECTED TECHNICAL PROJECTS

PSOP - Physical Security Observability Platform

In development · Lab validated

- Operational-assurance platform connecting field experience with software-based visibility for physical/cyber-physical infrastructure.
- Implements operational evidence, fleet topology and incident workflows; lab validated with a Speco NVR and IP cameras; includes automated testing, CI, RBAC, MFA, sessions and audit.

BiaoTech API

Historically deployed · Currently offline

- TypeScript/Node.js REST API with PostgreSQL, JWT access/refresh authentication, RBAC, validation, rate limiting, health checks and automated tests; historically deployed to AWS EC2 through GitHub Actions CI/CD using Node.js/PM2. Docker Compose is local-development tooling.

BiaoTech Cloud Lab

Infrastructure as Code & Cloud Operations · Design validated · Not deployed

- Cost-aware Terraform-defined AWS architecture for containerized workloads, CI/CD, GitHub OIDC and least-privilege access; ECS Fargate/ECR/ALB/CloudWatch design with explicit zero-spend guardrails, validated without provisioning AWS resources.

ACADEMIC & PROFESSIONAL ACTIVITY

- Peer Reviewer - IEEE Internet of Things Journal; peer-review activity documented through the journal workflow.
- Four applied-AI projects submitted to Devpost technical competitions in 2025-2026, including Google DeepMind Gemini 3, Elastic Agent Builder, DSOC and Techinance Cyberhack.

EDUCATION

PUC Minas - Postgraduate Specialization in Cloud Computing (Computação em Nuvem), 384 hours Completed Aug 10, 2026 · Certificate issued Oct 6, 2026	**Estácio** - Technology Degree in Systems Analysis and Development 2017-2020 · Degree conferred Nov 2020

CERTIFICATIONS & CONTINUING EDUCATION

- Oracle Agentic AI Certified Foundations Associate (2026)
- Oracle Cloud Infrastructure 2024 Data Foundations Associate
- ISC2 CC - course & final assessment completed
- IBM SkillsBuild - Cybersecurity Fundamentals
- Oracle Cloud Infrastructure 2024 Foundations Associate
- Fortinet FCF · Fortinet FCA · Certified ScrumMaster (CSM)
- Cisco Networking Academy - Intro to Cybersecurity
- Currently studying for AWS certifications