

Paulo Fernandes Biao

Cloud & Security Engineer

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PROFESSIONAL SUMMARY

Cloud & Security Engineer with 8+ years in electronic security, CCTV systems, and IT infrastructure, now specializing in cloud-native environments on AWS. Experienced in deploying containerized APIs with Docker, CI/CD pipelines via GitHub Actions, Zero Trust security architectures, and remote IT support. Pursuing AWS Solutions Architect certification and Cloud Computing postgraduate degree. Open to US-based remote roles in cloud infrastructure and cybersecurity.

TECHNICAL SKILLS

Cloud & Infrastructure

AWS EC2, S3, IAM, VPC, Elastic IP
Docker, Nginx, GitHub Actions CI/CD
Node.js, PostgreSQL, REST APIs
Python (in progress), TypeScript

Security

Zero Trust Architecture, JWT Auth
OWASP ASVS, ISC2 CC, Fortinet FCA/FCF
CCTV, IoT, Electronic Security Systems
HIPAA, Regulatory Compliance Frameworks

PROFESSIONAL EXPERIENCE

Assistant System Analyst — Electronic Security & Cloud Infrastructure

Triunfo Digital · Remote · 2018 – Present

- Deployed and maintained CCTV and electronic security infrastructure across 40+ client sites
- Managed cloud infrastructure including AWS EC2 instances, VPC networking, and Elastic IP configuration
- Built and deployed a production REST API on AWS EC2 with Docker, Nginx, PostgreSQL, and GitHub Actions CI/CD
- Implemented JWT authentication and HTTPS on custom domain (api.biaotech.dev) serving real-time health monitoring
- Provided remote IT support and troubleshooting for enterprise security systems and IoT ecosystems
- Authored 3 security frameworks (SecureBank, HealthGuard, PhysiDigital) published across Zenodo, Figshare, and Academia.edu

Independent Security Researcher & Framework Designer

Self-directed · 2023 – Present

- Designed SecureBank — a Zero Trust architecture framework for high-assurance banking systems, published with DOI
- Invited Peer Reviewer at IEEE IoT Journal (Feb 2026 – present)
- Active contributor to OWASP ASVS 3.2.2 — public contribution on SPA security verification (Jan 2026)
- Submitted 4 AI/cybersecurity projects to Devpost global hackathons with 60,000+ participants

EDUCATION

Postgraduate Degree in Cloud Computing

PUC Minas

Expected Nov 2026

Bachelor's Degree — Systems Analysis & Development

Estacio University, Brazil

2017 – 2020

CERTIFICATIONS

- ISC2 Certified in Cybersecurity (CC)
- Oracle Cloud Infrastructure 2024 Foundations Associate
- Certified ScrumMaster (CSM) — Scrum Alliance
- Oracle Cloud Infrastructure 2024 Data Foundations Associate

- Fortinet Certified Associate in Cybersecurity (FCA)
- Fortinet Certified Fundamentals in Cybersecurity (FCF)
- Cisco Networking Academy — Introduction to Cybersecurity
- IBM SkillsBuild — Cybersecurity Fundamentals