

Johan David Rodriguez Castro

Security & AppSec Engineer — Supply-Chain Security & Threat Detection

Email johan.rc2020@gmail.com **Phone** +57 313 878 4948 **Location** Bucaramanga, Colombia · remote-ready

GitHub github.com/Yoyagm **English** C2 (EF SET 80/100)

SUMMARY

Systems & Software Engineering student (UPB, 7th semester) operating at an engineering level rather than a findings level: I ship production-grade security tooling backed by tests, CI gates and strict typing. Creator of **SlopGuard**, a pre-install supply-chain guard against AI-hallucinated and malicious packages. Hands-on with mobile app hardening, TOTP 2FA, secure storage and real-time network monitoring. Verified C2 English. Available for remote collaboration.

SELECTED PROJECTS

SlopGuard — open-source supply-chain security tool

github.com/Yoyagm/slogguard

- Pre-install guard against **slopsquatting** — the attack surface where LLMs suggest non-existent package names and attackers pre-register them with malicious code.
- 5-layer detection engine with **zero runtime dependencies**, covering PyPI and npm.
- Multiple delivery surfaces: CLI, pre-commit hook, GitHub Action and a self-hostable SaaS frontend.
- Engineering rigor: pytest suite, CI security gates, mypy strict typing.

Stack: Python · pytest · mypy · GitHub Actions · pre-commit

GoatGuard — mobile network monitoring & 2FA (Flutter)

github.com/Yoyagm/goatguard-app

- Real-time network monitoring app with **TOTP 2FA** and backup codes (implemented).
- Secure-by-design mobile patterns: OS-backed secure storage and hardened local auth.
- Dashboard visualizations built against a demo/backend-ready data layer (sample data; live push pipeline not yet wired).

Stack: Flutter · Dart · TOTP · secure storage

Mobile hardening work — secure-by-design financial app (private)

under NDA

- Memory-hard **Argon2id** PIN hashing, opt-in biometric lock with lifecycle re-lock on background return.
- Encryption at rest (SQLCipher), Row-Level Security, and a deterministic decimal money engine.

Stack: Flutter · Dart · SQLCipher · Argon2id

EXPERIENCE

Developer / Technical Support · Pontificia Universidad Bolivariana

Jan 2026 – Present · Bucaramanga

- Endpoint threat detection: identification and analysis of port scans and network intrusion attempts.
- Automated asset classification (routers, printers, cameras) with a real-time monitoring dashboard and KPIs.
- Technical support to end users across the institution.

Scrum Master · Pontificia Universidad Bolivariana

Jun 2025 – Nov 2025 · Bucaramanga

- Contributed to a high-availability infrastructure design targeting ~100k concurrent users with a <500ms latency objective (*design target, not a measured outcome*).
- Collaborated on hybrid SQL / NoSQL / in-memory architecture decisions and AI-based analytics integration.
- Led the full Scrum cycle: sprint planning, dailies, retrospectives and stakeholder demos.

Bilingual Customer Support & Community Manager · Negocios en Autopiloto (Hotmart)

May 2025 – Present · Remote

- Bilingual (EN/ES) support via WhatsApp and Telegram; 3–5 simultaneous conversations with a <10-min response commitment.
- Community management and member engagement across digital channels.

Assistant & Public Coordinator · EM Tournaments and Competitions

May 2025 – Present · Bucaramanga

- First point of contact for participants and attendees; coordination between participants, organizers and staff at live events.

EDUCATION

B.S. in Systems & Software Engineering

Pontificia Universidad Bolivariana

Feb 2023 – Present (7th sem.)

Advanced coursework in software architecture and systems design.

CERTIFICATIONS

- EF SET English — CEFR **C2** (Proficient), 80/100 · 2026
- JavaScript Algorithms & Data Structures — freeCodeCamp · 2025
- Responsive Web Design — freeCodeCamp · 2024

SKILLS

Security & AppSec

Supply-chain security (slopsquatting detection) · dependency scanning & pre-install guarding · endpoint threat detection · TOTP 2FA · secure SDLC & CI gates · mobile hardening · Argon2id · OS-backed secure storage · SQLCipher · Row-Level Security

Backend & Data

Hybrid SQL / NoSQL / in-memory architecture · REST APIs · WebSockets · Firebase · high-availability design

Frontend

React / Next.js / Tailwind · Flutter UI · responsive web

Languages

Python · TypeScript · JavaScript · SQL · Dart

Tooling & DevSecOps

Git/GitHub · GitHub Actions · pre-commit · pytest · mypy strict · package publishing · Vercel

Soft skills

Bilingual EN (C2) / ES (native) · Agile/Scrum · technical documentation · remote & async collaboration