

# DAN BORGOGNO

## Security Researcher & Security Engineer

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## PROFILE

Security Engineer and researcher with 12+ years of experience in offensive security, cloud architecture, and automated security platforms. Led security programs for fintech and cyber-insurance companies, architected AI-powered vulnerability assessment platforms, and discovered critical vulnerabilities in national infrastructure. International speaker at DEF CON (main track) and ekoparty. Expert in Android security, reverse engineering, and payment systems.

## EXPERIENCE

### Principal Security Engineer / Acting CISO

#### Latu Seguros, Córdoba

Oct 2022 – Aug 2025    Cyber-insurance startup

- Architected and led all security initiatives as sole security leader, establishing security foundation from ground zero
- Built enterprise-grade AWS security infrastructure (IAM, Cognito, GuardDuty, CloudWatch, Config) and deployed CrowdStrike EDR
- Performed security code reviews and penetration testing across all production systems
- Architected and developed AI-powered automated attack-surface assessment platform:
  - Distributed orchestration system managing multiple security scanning tools (Nmap, Nuclei, Burp Suite)
  - Automated security assessments including attack surface discovery, vulnerability detection, web service analysis, and email security
  - Integrated Anthropic Claude LLM with custom agentic framework for iterative security analysis and vulnerability exploration
  - Developed proprietary scoring algorithms and automated reporting engine
- Led security assessments for enterprise clients including code audits, cloud configuration reviews, and IPAF validation
- Executed manual penetration tests for major financial institutions, identifying critical vulnerabilities

### Security Engineer (Red/Blue Team & Architecture)

#### NaranjaX, Córdoba

Apr 2020 – Oct 15, 2022    Fintech / Digital Banking

- Led penetration testing and security assessments for critical financial services infrastructure
- Enhanced threat detection capabilities across red and blue teams, reducing mean time to detection
- Architected secure system designs and established security training programs

### Back-end & Cloud Services Developer

#### MercadoLibre, Córdoba

Feb 2019 – Apr 2020    E-commerce and logistics platform

- Developed high-throughput backend systems (Java & Go) for logistics operations serving millions of transactions
- Built scalable microservices and REST APIs leveraging distributed data stores and AWS infrastructure

### Java Developer / SDL Champion

#### McAfee (Intel Security), Córdoba

📅 Aug 2015 – Jul 2019

📍 Cybersecurity product division

- Developed core components for McAfee Active Response, a leading enterprise threat detection platform
- Served as Security Development Lifecycle Champion, establishing secure coding standards
- Led global threat-hunting engineering team as Scrum Master

Freelance Security Consultant & Researcher

Independent, Córdoba

📅 2013 – Present

- Custom penetration testing and security audits for enterprise clients
- Expert in Android application security using Frida and reverse engineering (Ghidra, JADX)
- Discovered critical vulnerabilities in SUBE (national transportation) and DNI Digital Argentino (national digital identity)

SECURITY RESEARCH & TALKS

- **DEF CON (Main Track, 2024)** — "Invisible Transactions: Hacking Screenless Bluetooth POS Devices" (with Ileana Barrionuevo). Research on mobile POS vulnerabilities impacting IoT, NFC, and EMV payment security
- **Ekoparty 2020** — "Hacking the Digital DNI" (Best Talk Award). Security research on Argentina's national digital identity system
- **Ekoparty 2019** — "Free rides! SUBE, REDBUS, SATBUS and others" (Best Talk Award). Vulnerabilities in national transportation payment systems

TECHNICAL SKILLS

Offensive Security   Penetration Testing   Reverse Engineering   Cloud Security   Android Security   Web Application

**Languages:** Go, Java, Python, Kotlin, Ruby, C/C++, Assembly, JavaScript/TypeScript, Bash, SQL  
**Cloud & Infrastructure:** AWS (IAM, Cognito, GuardDuty, CloudWatch, Lambda, EC2, S3, VPC), Docker, Kubernetes, Terraform  
**Offensive Tools:** Burp Suite, Nmap, Metasploit, Nuclei, SQLMap, GraphQL testing, Wireshark, Hashcat, Hydra  
**Reverse Engineering:** Frida (expert), Ghidra, IDA Pro, JADX, APKtool, Objection, MobSF  
**Defensive Security:** CrowdStrike EDR, ELK Stack, AWS GuardDuty, CloudWatch, Google Workspace  
**Methodologies:** OSCP-level testing, OWASP Top 10, PTES, threat modeling, secure SDLC, red/blue team exercises

EDUCATION

National University of Río Cuarto, Córdoba

Computer Science / Systems Analyst

📅 2008 – 2014

📍 GPA 7.3/10

AWARDS & RECOGNITION

- **Best Talk Award** — Ekoparty 2019 & 2020
- **DEF CON Main Track Speaker** — 2024

LANGUAGES

Spanish (Native)   English (Advanced / Professional)