



Alex Pecorilla.

Systems Engineer & Technical Lead

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Systems engineer with a decade of experience building and scaling production systems, from backend services and ERP platforms to blockchain infrastructure and hardened security environments. I bridge the gap between business requirements and technical implementation, and have built the operational platform behind a 20-location ghost kitchen network processing over 10,000 food orders per day. Versatile and hands-on, with expertise ranging from ERP systems and IT infrastructure to cybersecurity (OSCP certified) and blockchain development.

A French native fluent in English, I operate a Bitcoin mining fleet across three continents and co-founded **Freedom Lab**, a New York association dedicated to teaching digital sovereignty and privacy tools.

// Experience

Bitcoin Mining Operator

Oct 2024 - Present

Independent · Multi-site

- > Deployed a fleet of 22 high-end Bitmain ASICs producing 6,006 TH/s of aggregate hashrate across facilities on 3 continents.
- > Optimized energy procurement to achieve a weighted average cost of \$0.08/kWh, powering 87.66 kW of continuous load.
- > Maintain fleet-wide efficiency of 14.59 W/TH through strategic hardware selection and firmware tuning.
- > Manage \$200K+ in deployed hardware assets, handling international logistics, site selection, and remote monitoring infrastructure.

Chief Security Officer (CSO)

Jul 2022 - Feb 2026

Centre Innovation Group · New York, NY

- > Directed the security posture for a premier IT & Helpdesk firm serving global luxury retail brands.
- > Managed the internal Security Operations Center (SOC) to safeguard corporate infrastructure and client data.
- > Led high-stakes security consulting missions to secure complex ERP and EDI integrations for enterprise clients.

Chief Technology Officer (CTO)

Feb 2018 - Jul 2022

Sweetheart Kitchen · Dubai, UAE

- > Built the technology backbone for a ghost kitchen network, scaling from pre-seed to Series C (\$65M raised) and successful exit.
- > Designed an operational platform processing 10,000+ daily orders across 20 international locations.
- > Implemented a custom ERP system to automate inventory, supply chain, and logistics for industrial-scale production.

ERP Project Manager

Nov 2016 - Feb 2018

Eiffel Group LLC · New York, NY

- > Founded a consultancy delivering ERP and IT infrastructure projects for clients including the United Nations and the French Government.
- > Designed secure infrastructure for US government contractors specializing in lawful interception for the DEA and FBI.
- > Deployed custom ERP and POS systems for retail chains, streamlining inventory management and point-of-sale operations across NYC.

// Skills

OPERATIONAL

- > **Prototyping** — Rapid PoC & MVP engineering
- > **Architecture** — Fault-tolerant distributed systems
- > **Infrastructure** — Multi-region cloud & on-premise
- > **FinOps** — Cloud cost & CapEx/OpEx optimization
- > **Due Diligence** — Code audits & security assessments
- > **Automation** — ERP workflows & supply chain logic
- > **Resilience** — DRP & business continuity
- > **Blockchain Infrastructure** — PoW & PoS consensus, node ops, fleet mgmt
- > **Governance** — GDPR & compliance frameworks
- > **Team Ops** — DevOps, SOC & engineering workflows

TECHNICAL

- > **Offensive Security** — Pentesting & network exploitation
- > **Defensive Security** — SOC, SIEM & system hardening
- > **ERP Ecosystems** — Odoo implementation & customization
- > **Systems Architecture** — Linux, self-hosting, virtualization
- > **Retail Systems** — EDI, POS & payment gateways
- > **Backend Development** — Python, REST APIs, Bash
- > **Data & Databases** — MongoDB, PostgreSQL, ETL
- > **Smart Contracts** — Solidity, Foundry, Chainlink, Ethers.js
- > **Network Engineering** — VPN, firewalls, multi-site
- > **Zero-Knowledge Proofs** — ZK proof systems & privacy verification

// Education & Certifications

Solidity & Smart Contract Development

Cyfrin Updraft · 2026

Solidity, Foundry, Chainlink, ERC-20/721, L1 & L2. [Verify credentials](#)

Fundamentals of Zero-Knowledge Proofs

Cyfrin Updraft · 2026

ZK proof systems, cryptographic primitives, privacy-preserving verification. [Verify credentials](#)

Offensive Security Certified Professional (OSCP)

OffSec · January 2024

24-hour practical exam: compromise of 3 machines + full Active Directory network. [Verify credentials](#)

Computer Science (First Year)

Université Paris Diderot · 2015 - 2016

Algorithms, Data Structures, and Applied Mathematics.