

RALPH LAWRENCE PECAYO

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TECHNICAL EXPERIENCE

RFX Studios

March 2021 – Present

Full Stack & Blockchain Developer

Quezon City, Philippines

- Architected and engineered 10+ scalable web and mobile applications using React, Next.js, and Node.js, establishing immutable data handling workflows, standard security measures, and Row-Level Security (RLS) to enforce strict user privacy protocols.
- Developed **RFX POS** (rfxpos.cloud), a production-grade, offline-first mobile point-of-sale system utilizing local caching architectures synchronized with cloud infrastructure and native camera barcode scanning.
- Engineered and launched **RSVPRO** (rsvpro.site), a low-latency automated web application platform that provisions, compiles, and instantly deploys customized event sites via serverless configurations.
- Designed and open-sourced **Pribado Key Manager** (pribado.dev), a decentralized cryptographic key management system optimizing asset access security through targeted implementation of blockchain primitives.
- Architected security layers across decentralized Web3 applications using Zero-Knowledge (ZK) proofs and hardware-secured Trusted Execution Environments (TEEs) to protect DeFi protocols against exploits.

PSG Global Solutions

February 2017 – February 2021

Database Administrator

Pasig City, Philippines

- Sourced, modeled, and managed high-throughput candidate data pipelines across enterprise platforms, optimizing backend index structures to increase talent ingestion efficiency.
- Generated complex analytical validation reports on multi-stage candidate workflows, implementing diagnostic data filtering that improved recruitment accuracy benchmarks by ~15%.
- Designed and audited relational schemas and security protocols to guarantee explicit compliance with regional data privacy frameworks and strict data isolation rules.
- Overhauled stale pipeline architectures into unified database tracking assets, significantly cutting reporting latency and unlocking cross-functional query performance.

EDUCATION

Montessori Professional Colleges of Asia

2012 – 2016

Bachelor of Arts in Computer Science

Pasig City, Philippines

SKILLS & TECHNOLOGIES

Programming Languages: Solidity, Rust, TypeScript, JavaScript, SQL, HTML/CSS

Frameworks & Environments: React.js, Next.js, Node.js, Web3.js, Tailwind CSS, Android Ecosystem

Blockchain Tooling: Foundry, Hardhat, Remix, OpenZeppelin, Static Analysis, Smart Contract Architecture

Databases & Infrastructure: PostgreSQL, Supabase, Firebase, Row-Level Security (RLS), Offline-First Synchronization, Cloud Infrastructure