

JOHN ANTHONY PECSON

Senior Product Engineer

Healthcare • AI • SaaS • Distributed Systems

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PROFESSIONAL SUMMARY

- Senior Product Engineer with 10+ years of experience architecting production software across healthcare, fintech, SaaS, and AI.
- Technical founder experienced in balancing rapid product delivery with long-term reliability across full-stack and cloud-native environments.
- Expert in distributed systems, event-driven architecture, and real-time applications, taking products from concept to production.
- Passionate about turning ambiguous ideas into scalable software through close collaboration with founders, designers, and customers.

CORE EXPERTISE

Frontend

Next.js • React • TypeScript • Tailwind CSS • React Native

Backend

Node.js • NestJS • Fastify • Express • REST APIs • WebSockets

Cloud & Infrastructure

AWS • Docker • Kubernetes • Cloudflare • CI/CD • GitHub Actions

Databases

PostgreSQL • MongoDB • Redis • Firebase

Architecture

Distributed Systems • Event-Driven Architecture • Microservices • API Design • System Design

Payments & Integrations

Stripe • GCash • Maya • Firebase • Ably

Developer Tools

Git • GitHub • Claude Code • Cursor • AI-assisted Development

PROFESSIONAL EXPERIENCE

Lead Full-Stack Developer & Product Engineer

Empire Crypto Trading (Australia)

February 2025 – March 2026

Lead the technical evolution of a global crypto education platform, focusing on high-concurrency architecture and real-time community engagement.

Key Contributions

- Rebuilt the global crypto platform using Next.js and NestJS for long-term modular scalability.
- Developed real-time notification and social features for premium memberships.
- Integrated Stripe subscriptions and Ably messaging into high-availability cloud infrastructure.
- Optimized application performance and deployment workflows across the engineering stack.
- Collaborated with product leadership to architect and deploy new revenue-generating features.

Technologies

Next.js • NestJS • PostgreSQL • AWS • Ably • Stripe • Sanity CMS • Docker

Full Stack Developer

Workbeaver (United Kingdom)

September 2024 – January 2025

Engineered the identity and authentication layer for enterprise-grade workflow automation tools.

Key Contributions

- Built secure authentication services for enterprise automation using Node.js and Docker.
- Designed DynamoDB-backed identity management services for high-concurrency workflows.
- Implemented real-time operational monitoring using AWS CloudWatch.
- Delivered hardened backend services focused on enterprise security standards.

Technologies

Node.js • Docker • AWS • DynamoDB • CloudWatch

Co-Founder & Chief Technology Officer

Safe Technology Ventures (Singapore)

July 2023 – May 2024

Led engineering for a fintech startup, building a secure dispute resolution engine for online transactions.

Key Contributions

- Architected a secure fintech dispute resolution engine from concept to MVP.
- Built complex transaction workflows using Next.js, Node.js, and PostgreSQL.
- Defined technical roadmap and engineering decisions for a Singapore-based startup.
- Developed secure document management and encrypted financial transaction logs.

Technologies

Next.js • Node.js • PostgreSQL • AWS

CTO / Blockchain Consultant

Tradeshare LLC (United States)

December 2020 – December 2021

Architected backend services and integrated blockchain protocols for an international trading ecosystem.

Technologies

Node.js • PostgreSQL • Financial APIs • Cloud Infrastructure

Blockchain Full Stack Developer

ProximaX (Singapore)

April 2019 – December 2020

Built decentralized applications and backend services for enterprise blockchain solutions.

Blockchain Full Stack Developer

NEM Foundation (Australia)

December 2018 – April 2019

Developed blockchain applications, SDK integrations, and developer tooling.

Full Stack Developer

Hybrain Development Corporation (Philippines)

November 2017 – August 2018

Developed healthcare and enterprise software solutions across frontend, backend, and cloud infrastructure.

Web & Mobile Application Developer

Connxt LLC (United States)

June 2014 – July 2016

Developed mobile and web applications for international clients.

FEATURED PROJECTS

SwiftCode (*Founder & Product Architect*)

Designed and built a mission-critical healthcare communication platform enabling psychiatric facilities to coordinate emergency response, staff communication, and operational workflows across Apple Watch, iPhone, iPad, and web applications.

Technologies

Swift • Node.js • PostgreSQL • Redis • MQTT • WebSockets • AWS • Docker

PickleTime (*Founder & Product Engineer*)

Engineered an end-to-end booking marketplace for the Philippine market featuring integrated GCash and Maya payment gateways.

Technologies

Next.js • NestJS • PostgreSQL • Redis • AWS • GCash • Maya

Empire Crypto Trading

Leading the technical evolution of a production-scale crypto education and community platform, architecting scalable systems that power premium memberships, real-time engagement, and subscription services.

Technologies

Next.js • NestJS • PostgreSQL • Stripe • Ably • AWS

Twynn (*In Development*)

Building a cross-platform AI desktop companion focused on local-first automation, developer productivity, and privacy-preserving workflows.

MeowPass

Open-source zero-knowledge secret manager featuring a Go-based CLI and Model Context Protocol (MCP) integration for secure AI-assisted development workflows.

Technologies

Go • TypeScript • Next.js • AWS Lambda • Argon2id • AES-256-GCM

ADDITIONAL SELECTED PROJECTS

- Safe Midman: Fintech dispute resolution engine for secure online transactions.
- One Festival App: Cross-platform event management and logistics application.
- Safebook: Enterprise-grade contact tracing and health monitoring platform.
- NEM Wallet Pro: Official high-security blockchain wallet for the NEM ecosystem.
- Colony PH: Hyper-local commerce and delivery platform for regional markets.
- Safe Space PH: Digital platform increasing accessibility to healthcare services.
- Core Banking Platform: Architected robust digital wallet and banking infrastructure.

TECHNICAL STRENGTHS

- Product Engineering • Full-Stack Development • Distributed Systems • Cloud Architecture
- Event-Driven Systems • System Design • Technical Leadership • API Design
- Real-Time Applications • Microservices • Performance Optimization
- UI/UX Engineering • DevOps • AI-assisted Development