

Kem John Mantos

Full Stack Engineer · Payments & Digital Wallets

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PROFESSIONAL SUMMARY

Full Stack Engineer with 9+ years of experience building complete products for businesses — websites and web apps that convert, mobile and desktop apps, and the backends underneath them. Foundation in the hardest part of the stack: distributed payment systems, Apple Wallet and Google Wallet platforms, and high-availability infrastructure where a bug costs real money. Next.js and React up front; Kotlin and Spring Boot below; PostgreSQL and AWS at the bottom. AI-accelerated delivery with senior-engineer review discipline: every line reviewed, tested, and held to payment-system standards. Technical leader across 30+ engineers in six teams spanning two countries.

PROFESSIONAL EXPERIENCE

Delivery Engineering Manager

Vauldex Technologies Inc. | March 2026 – Present

- Lead delivery coordination across 5 Philippine and 1 Japan-based engineering teams (30+ engineers), improving execution visibility, predictability, and transparency.
- Established a standardized repository release framework — SemVer versioning, branching strategy, and on-demand deployment workflows across all teams.
- Implemented a secrets management pipeline (Infisical + AWS Secrets Manager) with rollback procedures and a governance model using per-team release champions.
- Introduced a GitHub Enterprise security scanning stack — StepSecurity, CodeQL, Trivy, Gitleaks, Semgrep, Legitify — wired into the default CI path.

Senior Backend Engineer

Vauldex Technologies Inc. | March 2023 – Present

- Technical lead for the backend platform powering Apple Wallet and Google Wallet integrations — secure digital pass creation, issuance, and lifecycle management.
- Led end-to-end Stripe payment integration: secure flows, webhook orchestration, reconciliation, failure handling, and PCI compliance mechanisms.
- Built a distributed payment reconciliation system with automatic failure handling, dispute resolution, and cross-channel transaction tracking.
- Architected a macOS menu bar monitoring agent in Swift 5.10 / SwiftUI with ScreenCaptureKit streaming, Keychain integration, and SSE push.
- Managed high-availability PostgreSQL deployments with automated backups, replication, and disaster recovery on AWS.
- Mentored 10+ engineers on backend architecture, testing strategy, and operational excellence.

Software Backend Engineer

Vauldex Technologies Inc. | July 2018 – February 2023

- Designed and implemented core backend services supporting customer-facing and transactional systems.
- Built and optimized database schemas for high-throughput transactional workloads.
- Contributed to system architecture decisions and infrastructure planning.

Software Test Engineer

Vauldex Technologies Inc. | November 2016 – June 2018

- Designed and executed unit, integration, and functional test suites.
- Developed test automation frameworks to improve testing efficiency.
- Identified and documented critical defects and system vulnerabilities.

Web Developer Intern

City Savings Bank | June 2015 – August 2015

– Developed web-based banking features and user interfaces.

SELECTED PROJECTS

Native macOS Git Client (2026)

Full-featured Git client for macOS built entirely in Swift/SwiftUI — staging, branching, history, and diffs in a fast native interface. Includes a device-bound licensing system: signed license files, activation-code flow, and license-gated distribution builds. *Swift, SwiftUI, AppKit, Git, CryptoKit*

macOS Monitoring Agent (2024)

Menu bar agent with watchdog architecture — real-time screen streaming via ScreenCaptureKit, Keychain-backed credentials, SSE push, and policy-driven automation. *Swift, SwiftUI, ScreenCaptureKit, Keychain, SSE*

Distributed Payment Reconciliation (2023–2025)

Cross-channel transaction tracking with automatic failure handling and dispute resolution — keeps a multi-channel ledger honest without human sweeps. *Kotlin, PostgreSQL, Redis, AWS*

Enterprise Security Scanning Stack (2026)

Org-wide scanning rollout wired into the default CI path, plus a GitHub MCP server for enterprise integration. *CodeQL, Trivy, Semgrep, Gitleaks, GitHub Actions*

TECHNICAL SKILLS

Languages: Kotlin, Scala, Swift, TypeScript, SQL

Frontend: React, Next.js, SwiftUI, AppKit — SEO, Core Web Vitals, responsive design

Backend: Spring Boot, Ktor, REST, SSE

Mobile & Desktop: React Native, Tauri, native macOS

Databases: PostgreSQL, Redis

Cloud & DevOps: AWS (EC2, RDS, S3, CloudFront, ALB, Secrets Manager), Docker, Kubernetes, GitHub Actions, Infisical

Security & Compliance: PCI DSS, OAuth, PKI, TLS/SSL, API security, secrets management

Payments & Wallets: Stripe API, webhook orchestration, reconciliation systems, Apple Wallet, Google Wallet

AI-Augmented Dev: Claude Code, spec-driven workflow, AI code review discipline

EDUCATION

Bachelor of Science in Computer Science

University of Cebu | 2012 – 2016