KENDRIX DIAZ

Solutions Architect / Technical Architect / Software Engineer

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Overview

Solutions Architect with 6+ years of experience designing and delivering scalable, cloud-native systems across fintech, real estate, e-commerce, and AI domains. Proven track record of leading engineering teams, defining technical direction, and presenting architectural proposals to stakeholders to align technical decisions with business strategy. Skilled in translating business requirements into robust system designs — including high-level design documents, architecture decisions, and technical specifications — leveraging microservices, event-driven architectures, and LLM-powered platforms on GCP and AWS.

Experience

Accenture Inc — Philippines

Senior Software Engineer / Technical Lead
2024 – Present (Taguig, Philippines)

- Led a cross-functional team of 6 engineers in architecting and delivering 5 AI-driven solutions end-to-end — defined technical direction, authored high-level design documents, conducted architecture reviews, and presented technical proposals to client stakeholders.
- **CogniCV:** Evaluated multiple architecture approaches and selected a modular microservices design (React + Vite, Python Flask) for an internal hiring tool, balancing scalability with development speed — reduced manual screening time by 60% and cut reporting billing hours by 40%.
- **ADDIE:** Designed a decoupled, domain-agnostic architecture for a voice-first AI assistant (React, Tailwind, GCP Cloud Functions), enabling swappable knowledge bases across grocery, retail, and support domains without redeployment — improved customer engagement scores by 35%.
- **Document Q&A:** Architected an LLM-powered document intelligence platform with dynamic schema detection and automated ETL pipelines, defining security boundaries for file ingestion and

data access — reduced data processing billing hours by 50%.

- Architected an AI Quiz Generator for BPO training modules, designing an adaptive scoring engine with configurable difficulty thresholds — improved agent knowledge retention by 25% and reducing training cycle time by 30%.
- Designed a cloud-native AI E-commerce platform integrating a 3D shopping avatar (React Three.js + Drei) with a conversational cart engine, optimizing cloud resource allocation to minimize infrastructure costs while maintaining real-time performance.
- **Winner – Accenture Global Technology Innovation Contest (Philippines, FY2025):** Co-architected Juno's Lens, a multi-agent system for AI-driven image authenticity verification.

Arclabs Software Solutions

Software Engineer
2024 (Manila, Philippines)

- Designed the architecture for a Fuel Inventory Management System (React, Python Flask, PostgreSQL), evaluating real-time vs. batch processing trade-offs for tracking deliveries, schedules, and petroleum stock levels across 15+ depots and gas stations (PetroGazz & subsidiaries).
- Implemented event-driven inventory reconciliation workflows with fault-tolerant retry mechanisms, reducing manual data entry errors by 70% and improving supply chain visibility across the distribution network.

Aqwire Global Real Estate Solutions

Software Engineer
2019 – 2023 (Makati, Philippines / Singapore)

- **Payment Gateway:** Designed a scalable, PCI-aware payment architecture for real estate amortizations, dues, and utilities (React, Python Flask, AWS, PostgreSQL). Integrated Stripe and PayMongo gateways with automated KYC verification (IDfy), ensuring regulatory compliance and secure transaction processing.
- **Merchant Dashboard:** Architected a real estate partner dashboard with role-based access controls, settlement workflows, and dispute management — collaborating with business stakeholders to define requirements and ensure the platform met enterprise operational needs.
- **Customer Portal:** Designed a self-service customer portal supporting property enrollment, recurring auto-debit payments, and multi-account management, with high-availability architecture to ensure uninterrupted payment processing.

The Nerds Solutions

Frontend Developer

2021 (Makati, Philippines)

- Developed the frontend architecture for an avatar-driven e-commerce platform using React, Three.js, and React Drei, where cart items visually rendered on a 3D avatar, creating an immersive and interactive shopping experience compared to traditional catalog flows.

MHP National High School

Web Developer Intern

2019 (Bulacan, Philippines)

- Conducted functional and edge-case testing on the Student Information System, validating input handling and data integrity across 500+ test scenarios.

Education

Bulacan State University

B.S. Mathematics Major in Computer Science

2019 (Bulacan, Philippines)

- Thesis: READI (Real-Time Emergency Alerts and Disaster Information) — mobile app delivering real-time alerts and disaster information to communities; finalist in the College of Science's Best Thesis Competition.

Core Competencies

- **Frontend:** React, Vite, Next.js, Tailwind, Material UI, Ant Design, Three.js
- **Backend:** Node.js, Python, Flask, FastAPI, NestJS
- **Databases:** PostgreSQL, BigQuery, MongoDB, Firebase
- **Cloud & Infrastructure:** GCP, AWS, Serverless Architecture
- **AI/LLM:** Gemini, Claude, GCP Model Garden, Llama, Multi-Agent Systems, NLP Pipelines
- **Architecture:** Microservices, Event-Driven Design, RESTful APIs, ETL Pipelines, High-Level & Low-Level Design, System Design
- **DevOps & Tools:** Git, GitHub, Google Source, Azure DevOps
- **Project Management:** Jira, ClickUp, Trello, Monday, Notion