

Ian Kris Malubay Espinoza

Software Engineer | Agentic Workflows

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SKILLS

- Agentic AI and LLM engineering: multi-step agent workflows, LLM orchestration with LangChain and LangGraph, retrieval-augmented generation (RAG), vector search, embeddings, and prompt engineering
- Production AI reliability: prompt-level tracing and evaluation, cost controls, self-healing long-running jobs, and graceful recovery from non-deterministic agent behavior
- Backend engineering with Python (FastAPI, asyncio) and PHP (Laravel), distributed task queues, event-driven services, and MQTT messaging for IoT platforms
- Full-stack delivery: real-time React and TypeScript interfaces that stream AI output and keep multi-user state in sync, with Flutter for mobile clients
- SQL across PostgreSQL, MySQL, and Oracle PL/SQL, covering schema design, query tuning, indexing, and Redis caching
- RESTful API design and integration, multi-tenancy, authentication and authorization, and data isolation
- Core stack and tooling:
 - Python, TypeScript, JavaScript, PHP, SQL, Java, FastAPI, React, Node.js, Laravel, Flutter
 - PostgreSQL, MySQL, MongoDB, Redis, MQTT, Docker, Git, AWS, DigitalOcean, Linode, Jira, Trello, Slack
- Specification-first on non-trivial work: diagnose before fixing, reuse existing infrastructure, and flag open decisions rather than guessing

WORK EXPERIENCE

Software Engineer | Agentic Workflows

May 2026 – Present

Van Horn Law Group P.A., Fort Lauderdale, Florida (Remote)

Build production agentic AI workflows for an AI-powered SaaS platform. LLM orchestration, RAG, and multi-agent pipelines across a Python / FastAPI backend and a React / Typescript frontend.

- Ship multi-step agentic workflows that integrate LLMs into reliable, production-grade automation.
- Engineer LLM orchestration, RAG, and agent tooling with LangChain / LangGraph plus vector search.
- Build guardrails for non-deterministic output, schema-validated structured results, deterministic re-checks, and human-in-the-loop sign-off before anything counts as final.
- Add observability, tracing, and self-healing so AI runs stay reliable in production.
- Work full-stack: async backends, distributed task queues, and real-time streaming UIs.

Software Engineer

July 2025 – February 2026

BIST Consulting, Germany (Remote, part-time)

- Designed, developed, and maintained RESTful APIs: defined endpoint contracts, implemented business logic, handled authentication and authorization, and optimized request and response performance.
- Built backend services for scalable, secure architectures and managed web and database servers across development, testing, staging, and production, including migrations and performance tuning.

Software Engineer

April 2021 – April 2025

Elecaas, Dubai, United Arab Emirates

- Delivered RESTful services for an IoT platform, creating and modifying endpoint processes and keeping MQTT communication reliable between hardware devices and the web and mobile applications.
- Implemented three APIs covering administrative, partner, and client-side functionality, with major modules for client information, hardware control and configuration, and firmware management.
- Designed, maintained, and supported IoT functionality end to end, and configured and managed web applications and database servers for testing, staging, and production.

Web Developer / DevOps

September 2018 – April 2021

NAFFCO FZCO, Dubai, United Arab Emirates

- Designed, developed, and supported intranet ERP and CRM systems used by more than 8,000 employees.
- Worked directly with stakeholders to produce detailed specification documents with clear deliverables and timelines, then planned the server-side and architectural implementation.
- Maintained more than 30 websites and custom applications, and managed web and database servers, domain name accounts, and DNS records across testing, staging, and production.

Software Developer / Consultant

January 2015 – August 2018

Oracle (Philippines) Corporation, Utilities Global Business Unit

Associate Consultant, promoted to Staff Consultant in 2017

- Converted technical design specifications, from simple to complex, into production-quality code within agreed budgets and timelines with minimal supervision.
- Performed unit and package testing, investigated defects, and prepared release packages with documentation and modules for client delivery.
- Supported system testing and user acceptance testing, and supported the overall project management and packaging tooling.

EDUCATION

Degree	BS Information Technology – Business Software Development
School	Mindanao State University

I hereby certify that the above information is true and correct to the best of my knowledge.


IAN KRIS M. ESPINOZA