
Framesta Fernando

Engineering Manager | Technical Architect | AI Orchestrator | Solution Architect

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PROFESSIONAL SUMMARY

Engineering Manager & Technical Architect with 5 years leading teams in fast-paced startup environments and architecting AI-orchestrated, high-scale backend ecosystems: 100+ microservices, hundreds of RPS 24/7, millions of records with millisecond query performance. Skilled in AI orchestration (LLMs, agents, tools, automated workflows), microservices and event-driven architecture, DevOps (99.9% availability, 60% faster deployments), and database engineering. Ships projects end-to-end within days using leading AI coding tools (Claude Code, Cursor, Codex, opencode).

CORE SKILLS

- **Architecture:** Microservices, Event-Driven Architecture, Domain-Driven Design (DDD), Clean Architecture, Solution Architecture, System Design
- **Artificial Intelligence:** AI Orchestration, LLMs, AI Agents, Automated Workflows
- **AI Tooling:** Claude Code, Cursor, Codex, opencode, AI-Assisted Development
- **Backend:** Rust, C++, .NET, ASP.NET, C#, Node.js, NestJS, TypeScript, JavaScript, Golang, Laravel, Java
- **Frontend:** React, Next.js, Astro, Atomic Design
- **Infrastructure & DevOps:** Docker, Kubernetes, CI/CD Pipelines, Multi-Region Deployments, Monitoring, Reliability, Redis, Message Queues, Kafka, RabbitMQ, NATS
- **Databases:** MySQL, PostgreSQL, SQL Server, Redis, SQLite, MongoDB, TimescaleDB, ClickHouse
- **Integrations:** Stripe, Xendit, SAP, WhatsApp API, SMTP

PROFESSIONAL EXPERIENCE

Engineering Manager

MrScraper

Remote, Los Angeles, CA, United States | Sep 2025 - Present

- Super fast-paced startup: do it today, not tomorrow.
- Lead cross-functional teams (DevOps, Backend, Frontend, UI/UX).
- Design AI Orchestration coordinating LLMs, agents, tools, and automated workflows.
- Architect end-to-end solutions based on client needs and competitive benchmarks.
- Design, integrate, and maintain a Stripe-based subscription platform.
- Drive client PoCs from initiation to commercial agreement.
- Architect CI/CD pipelines for dozens of services, workers, and schedulers.
- Design DB schemas and microservices architecture informed by competitor UI/UX patterns.
- Provide technical direction to backend/frontend teams; resolve client issues via helpdesk and community channels.

Senior Software Engineer

MrScraper

Remote, Los Angeles, CA, United States | Apr 2025 - Sep 2025

- Delivered across UI/UX, backend, frontend, and CI/CD while supporting team management.

Full Stack Engineer

DOT Indonesia

Remote, Malang, East Java, Indonesia | Apr 2024 - Apr 2025

- Built full-stack apps for 100K+ users; up to 80% performance improvement.
- Decomposed monolith into 12+ microservices with event-driven patterns.
- Cut production bugs 70% via clean code; designed scalable schemas and RESTful APIs handling 1M+ daily requests at 99.9% uptime.
- Built Atomic Design system of 50+ components, cutting frontend time 40%.
- Modernized stack with TypeScript (NestJS, React) and .NET; cut runtime errors 50%; optimized MySQL/PostgreSQL/SQL Server, cutting query time 60%.
- Integrated Xendit, WhatsApp, and SMTP at 99.5% success rate.
- Led 1000+ code reviews; mentored 8+ interns.

Backend Engineer

DOT Indonesia

Remote, Malang, East Java, Indonesia | Jan 2023 - Apr 2024

- Developed full-stack web functionality for server and client sides.

- Designed DB schemas, REST APIs, UI/UX slicing, and client-side API integration.
- Built event-driven microservices with service integrations.
- Applied Atomic Design; TypeScript/NestJS, Laravel, .NET backend; ReactJS, NextJS frontend.
- Worked with MySQL, SQL Server, PostgreSQL; integrated Xendit, WhatsApp, SMTP.
- Reviewed code on MRs/PRs; reviewed CVs and interviewed internship candidates.

Junior Back End Engineer

DOT Indonesia

Remote, Malang, East Java, Indonesia | Jun 2022 - Jan 2023

- Developed microservice architecture and integrations with TypeScript/NestJS, Laravel, .NET.
- Worked with MySQL, SQL Server, PostgreSQL.
- Third-party integrations: Xendit payment, WhatsApp messaging, SMTP.

Additional Experience

10+ freelance and personal projects (data scraping tools, automation, AI applications)

PROJECTS

mrscraper.com - AI Web Scraping Platform

Aug 2025 - Present | Associated with MrScraper

- Engineering leadership & technical ownership across product, architecture, infrastructure, customer delivery, and operations.
- Led cross-functional engineering; owned architecture across AI orchestration, microservices, databases, infrastructure.
- Designed AI orchestration systems coordinating LLMs, agents, tools, and automated workflows.
- Drove client PoCs to commercial agreement; led CI/CD for dozens of services.

PAMAFix-SAP - Microservices Invoice System

Jan 2024 - Present | Associated with DOT Indonesia

- Led monolith-to-microservices migration, improving scalability, fault tolerance, and flexibility.
- Designed 8+ invoice-processing microservices for PT Pamapersada Nusantara (Order, Customer, Payment) integrated via APIs.
- Stack: .NET Framework, SQL Server, Next.js, NATS; integrated SAP, TOTP, WhatsApp, SMTP.
- Cut fault tolerance issues 70%; boosted team velocity 30% via coding standards and DDD.

EDUCATION

University Of Muhammadiyah Malang

Bachelor's Degree, Informatika (Computer Science) | Sep 2019 - Dec 2022 | GPA: 3.88

LICENSES & CERTIFICATIONS

- **Indonesian Professional Certification Authority (BNSP)** - Software Development | Issued Sep 2024
- **Studyjam Backend Development - Golang**, Nortis Academy | Issued Nov 2022