

## Description

You'll be building new product features alongside a frontend engineer and product manager using our Agile methodology, as well as addressing issues to ensure our apps are robust and our codebase is clean. As a Product Engineer, you'll write clean, efficient code to enhance our product's codebase in meaningful ways.

In addition to classic backend work, this role also touches on building AI-powered systems, where you'll design and orchestrate how large language models (LLMs) integrate into Rakamin's product ecosystem.

Here are some real examples of the work in our team:

- Collaborating with frontend engineers and 3rd parties to build robust backend solutions that support highly configurable platforms and cross-platform integration.
- Developing and maintaining server-side logic for central database, ensuring high performance throughput and response time.
- Designing and fine-tuning AI prompts that align with product requirements and user contexts.
- Building LLM chaining flows, where the output from one model is reliably passed to and enriched by another.
- Implementing Retrieval-Augmented Generation (RAG) by embedding and retrieving context from vector databases, then injecting it into AI prompts to improve accuracy and relevance.
- Handling long-running AI processes gracefully — including job orchestration, async background workers, and retry mechanisms.
- Designing safeguards for uncontrolled scenarios: managing failure cases from 3rd party APIs and mitigating the randomness/nondeterminism of LLM outputs.
- Leveraging AI tools and workflows to increase team productivity (e.g., AI-assisted code generation, automated QA, internal bots).
- Writing reusable, testable, and efficient code to improve the functionality of our existing systems.
- Strengthening our test coverage with RSpec to build robust and reliable web apps.
- Conducting full product lifecycles, from idea generation to design, implementation, testing, deployment, and maintenance.
- Providing input on technical feasibility, timelines, and potential product trade-offs, working with business divisions.
- Actively engaging with users and stakeholders to understand their needs and translate them into backend and AI-driven improvements.

## Required qualification

We're looking for candidates with a strong track record of working on backend technologies of web apps, ideally with exposure to AI/LLM development or a strong desire to learn.

You should have experience with backend languages and frameworks (Node.js, Django, Rails), as well as modern backend tooling and technologies such as:

- Database management (MySQL, PostgreSQL, MongoDB)
- RESTful APIs
- Security compliance
- Cloud technologies (AWS, Google Cloud, Azure)
- Server-side languages (Java, Python, Ruby, or JavaScript)
- Understanding of frontend technologies
- User authentication and authorization between multiple systems, servers, and environments
- Scalable application design principles
- Creating database schemas that represent and support business processes
- Implementing automated testing platforms and unit tests
- Familiarity with LLM APIs, embeddings, vector databases and prompt design best practices

We're not big on credentials, so a Computer Science degree or graduating from a prestigious university isn't something we emphasize. We care about what you can do and how you do it, not how you got here.

While you'll report to a CTO directly, Rakamin is a company where [Managers of One](#) thrive. We're quick to trust that you can do it, and here to support you. You can expect to be counted on and do your best work and build a career here.

This is a remote job. You're free to work where you work best: home office, co-working space, coffee shops. To ensure time zone overlap with our current team and maintain well communication, we're only looking for people based in Indonesia.