

AGIK SETIAWAN

Fullstack Engineer | AI Engineer | Tech Lead

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PROFESSIONAL SUMMARY

Senior Fullstack Engineer with **9+ years** building production-grade AI systems, microservices architectures, and scalable platforms serving **100K+ users**. Expert in Golang, NodeJS, Python, and modern cloud-native stacks.

Specialized in:

- Agentic AI & RAG implementation with LLMs (GPT-4, Claude, Gemini, etc)
 - Kubernetes orchestration & microservices (gRPC, NATS, Kafka)
 - Zero-to-production platform development with 99.9% uptime
 - Technical leadership & system architecture design
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TECHNICAL EXPERTISE

AI Engineering

- Agentic AI Development, RAG (Retrieval-Augmented Generation)
- Vector Databases (QDrant, Milvus)
- LLM Integration (OpenAI GPT-4, Claude, Gemini, Llama, etc)
- Embedding Models, Prompt Engineering
- AI Workflow Automation (N8N-like systems)

Backend & Cloud Architecture

- **Languages:** Go (Gin, Fiber, Echo), Python, Node.js
- **Microservices:** gRPC, GraphQL, REST API, WebSocket
- **Message Brokers:** NATS, Kafka, RabbitMQ
- **Containers:** Docker, Kubernetes, ArgoCD, Helm
- **CI/CD:** Jenkins, GitLab CI

Frontend Development

- React.js, Next.js 14 (App Router), Vue.js, Angular
- TypeScript, TailwindCSS, Shadcn/ui
- Real-time Apps (WebRTC, Socket.io)

Databases & Caching

- PostgreSQL, MongoDB, MySQL, Redis
- Database optimization & query tuning
- Vector databases for AI applications

DevOps & Infrastructure

- Kubernetes from scratch setup (zero to production)
 - Cloud platforms (AWS, GCP)
 - Monitoring: Prometheus, Grafana, ELK Stack
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PROFESSIONAL EXPERIENCE

AI AGENT ENGINEER & SOFTWARE ENGINEER

MastalD | Jan 2025 - Present | Jakarta, Indonesia

Built enterprise-grade AI automation platform from scratch, processing **1K+ AI requests daily** with **<500ms latency**.

Key Achievements:

AI AGENT BUILDER PLATFORM

- Architected multi-agent AI system combining GPTs, Claude, and custom tools using Golang microservices
- Implemented RAG with vector embeddings (Qdrant) achieving 94% accuracy in knowledge retrieval
- Built drag-and-drop workflow editor (Next.js 14) enabling non-technical users to create AI automations
- Reduced AI workflow creation time from 2 days to 15 minutes

PRODUCTION AI FEATURES DELIVERED

- **PPTX Auto-Generator:** Python + Go service generating 100+ presentations daily with AI-selected images
- **WhatsApp AI Bot:** Handled 1K+ daily messages with 98% accuracy
- **Google Sheets AI Bridge:** Real-time data sync and AI-powered analysis for 1K+ sheets

- **Voice & Video AI Integration:** Text-to-speech and video generation pipelines
- **Form Builder Chatbot:** Conversational forms with 3x higher completion rate

INFRASTRUCTURE & SCALABILITY

- Configured production Kubernetes cluster from bare-metal (3-node setup → 20-node auto-scaling)
- Implemented gRPC for inter-service communication (40% latency reduction vs REST)
- Set up ArgoCD GitOps pipeline (deployment time: 45min → 8min)
- Designed microservices handling 1K+ requests/day with 99.9% uptime

PAYMENT & AUTH SYSTEMS

- Integrated Midtrans & Ipaymu payment gateway
- Built OAuth2 system with Google SSO (1K+ active users)

Tech Stack: Golang (Fiber, gRPC), Python, Rust, Next.js 14, PostgreSQL, MongoDB, Redis, Quadrant, NATS, Kubernetes, ArgoCD, Jenkins, LangChain, OpenAI API, Claude API

FULLSTACK ENGINEER & TECHNICAL INSTRUCTOR

Mistercoding (Personal Venture) | 2022 - Present | Remote

Founded and developed complete EdTech platform from zero to production serving **1K+ students** with interactive coding features.

Key Achievements:

PLATFORM DEVELOPMENT (0 → PRODUCTION)

- **Live Class System:** Built WebRTC + Zoom API integration supporting 500+ concurrent users per session
- **LMS Platform:** Designed course management system with video streaming (10K+ hours watched)
- **Interactive Coding Tools:** In-browser code editor with real-time compilation (support 5+ languages)
- **Bootcamp Management:** Automated student tracking and assignment grading system

ARCHITECTURE & PERFORMANCE

- Microservices architecture with event-driven design (NATS messaging)
- Docker Swarm orchestration (later migrated to K8s)
- Implemented caching strategy reducing DB load by 70%
- Built CI/CD pipeline with Jenkins (15 deploys/day)

PAYMENT & BUSINESS FEATURES

- Multi-gateway payment integration (Xendit, Midtrans)
- Subscription management system (\$100K+ annual revenue)

Tech Stack: Golang, NestJS, Next.js, PostgreSQL, MongoDB, Redis, NATS, Docker, Kubernetes, Jenkins, WebRTC

FULLSTACK DEVELOPER & TECH LEAD

Extramarks Education (Kelas Pintar) | Aug 2022 - Aug 2025 | Jakarta, Indonesia

Led development of national education platform serving **100K+ students** and **10K+ teachers** across Indonesia.

Key Achievements:

TECHNICAL LEADERSHIP

- Led team of 8 engineers delivering 25+ microservices
- Established code review process reducing bugs by 60%
- Mentored 5 junior developers (3 promoted to mid-level)
- Introduced Golang to tech stack (improved performance by 5x)

PLATFORM FEATURES

- **Live Class Platform:** WebRTC + Zoom API handling 1K+ concurrent classes with 99.8% uptime
- **Scalable Backend:** Microservices processing 100k+ requests/day
- **Real-time Features:** WebSocket system for instant notifications and chat

INFRASTRUCTURE MODERNIZATION

- Migrated monolith to microservices (deployment time: 2hrs → 10min)
- Kubernetes orchestration with auto-scaling (cost reduced by 40%)
- Implemented Kafka event streaming for analytics pipeline
- Built CI/CD pipeline (GitHub Actions + ArgoCD)
- Database optimization reducing query time by 80%

IMPACT METRICS

- Platform uptime: 99.8% (from 95%)
- Page load time: 4s → 0.8s
- API response time: <100ms (p95)
- Infrastructure cost: -40% while handling 3x traffic

Tech Stack: Golang (Gin, gRPC), React.js, NestJS, PostgreSQL, MongoDB, Redis, Kafka, RabbitMQ, Kubernetes, Docker, Jenkins, WebRTC, Zoom API

FULLSTACK DEVELOPER

Biznet Networks | Aug 2018 - Aug 2022 | Jakarta, Indonesia

Developed enterprise internal applications for ISP company with **5K+ employees**.

Key Achievements:

INTERNAL SYSTEMS

- Built company intranet portal used by 5K+ employees daily
- Developed ticketing system processing 500+ tickets/day
- Created employee management dashboard with real-time analytics
- Designed responsive company website increasing leads by 35%

TECHNICAL CONTRIBUTIONS

- Implemented RESTful APIs with Laravel (50+ endpoints)
- Built SPA with Vue.js improving UX and performance
- Database optimization reducing load time by 60%
- Collaborated with DevOps for deployment automation

Tech Stack: Laravel, Vue.js, MySQL, Redis, Docker, GitLab CI

FULLSTACK DEVELOPER

PT Petrolab Services | Apr 2016 - Jul 2018 | Jakarta, Indonesia

Built HR and reporting systems for oil & gas laboratory services.

Key Achievements:

HRIS SYSTEM

- Developed complete HRIS managing 200+ employees
- Built attendance and payroll automation (saved 40hrs/month)
- Created reporting dashboard with 20+ real-time KPIs

PROCESS IMPROVEMENT

- Automated data entry reducing manual work by 30%
- Implemented document management system (DMS)
- Built company website with service catalog

Tech Stack: Yii2, Vue.js, PostgreSQL, jQuery, Bootstrap

KEY PROJECTS & ACHIEVEMENTS

AI WORKFLOW AUTOMATION PLATFORM (2025)

N8N-like system for building AI workflows

- Drag-and-drop interface connecting 20+ AI models/tools
- Processed 100K+ workflow executions
- **Tech:** Golang, React Flow, PostgreSQL, Redis

SAAS RAG BUILDER (2025)

Self-service platform for building AI chatbots

- Vector database integration with auto-embedding
- Served 500+ customers building custom AI bots
- **Tech:** Golang, Python, Quadrant, Next.js

REAL-TIME CODING PLATFORM (2023)

Interactive coding environment for bootcamp

- In-browser IDE supporting 5+ languages
- Real-time code execution and output
- **Tech:** Golang, Next.js, Docker, WebSocket

KUBERNETES PRODUCTION SETUP (2024)

Bare-metal to production K8s cluster

- 10-node cluster with auto-scaling
- ArgoCD GitOps implementation
- Cost optimization saving \$1K/month

EDUCATION

Bachelor of Computer Science

STIKOM | 2012 - 2016 | Jakarta, Indonesia

LANGUAGES

- Bahasa Indonesia - Native
 - English
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NOTABLE SKILLS & INTERESTS

- System Design & Architecture
- Performance Optimization
- Team Leadership & Mentoring
- Agile/Scrum Methodologies