

Teguh Atma Wijaya

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About Me

Software Engineer with 6+ years of expertise in backend systems, DevOps, and cross-functional team leadership. Proven ability to design scalable solutions, mentor engineers, and bridge technical and business needs—transforming client trust into multi-year enterprise partnerships. Passionate about clean code (SOLID/DDD), performance optimization, and empowering teams to ship independently.

Education

University of Indonesia, Bachelor of Computer Science

Depok, West Java

Skills

Technical

- **Languages:** English (Fluent), Bahasa Indonesia (Native)
- **Programming:** Go, Python, PHP, JavaScript
- **DevOps & Cloud:** Docker, CI/CD, AWS, GCP, Nginx, Grafana, Prometheus, Loki, Proxmox, Sentry
- **Systems Design:** Microservices, Distributed Systems, Event-Driven Architecture, DDD, MVC
- **Embedded/IoT:** Raspberry Pi, SmartCard Systems, Smart Parking, Smart Door Access
- **Protocols:** REST, WSDL, ISO8583 (Financial), MQTT, WebSockets, SOAP
- **Message Queues:** NSQ, RabbitMQ, Solace, AWS SQS/SNS, ZeroMQ
- **Databases:** PostgreSQL, MySQL, Sqlite, MongoDB, Redis
- **Tools:** Git, Jira, Kibana, Zabbix, Appsmith
- **AI/ML:** VLM Pipelines, Async Processing

Leadership & Soft Skills

- **Technical Leadership:** Team Mentoring, Architecture Reviews, Clean Code Advocacy
- **Client Management:** Requirements Gathering, POC Development, Technical Pre-Sales
- **Project Execution:** Agile/Scrum, System Design, Cross-Functional Collaboration, Technical Documentation
- **Problem Solving:** Performance Optimization (N+1, Caching), System Bottleneck Resolution

Work Experiences

AssistX Enterprise – Jakarta, Indonesia (On-site)

Backend Co-Engineering Manager

Dec 2024 - Now

- **Technical Leadership & and Mentorship**
 - Shared responsibility for 10+ persons backend team and trained 5+ engineers in DevOps (Docker,GitLab, CI/CD), DDD, and SOLID principles
 - Authored company-wide coding standards (Go), reducing PR review time by 40% and onboarding time by 25%
 - Taught teams to accessing server and self-deploy apps, reducing DevOps tickets by 50%
 - Designed a multi-database framework (PostgreSQL + Sqlite + MongoDB) for high-availability and scalability
- **Strategic Client Partnerships**
 - Designed a fully customized, on-premises system for intelligent document processing, leveraging Linux-native tools (cronjobs, file-based workflows) to automate multi-stage file routing and processing.
 - Designed and supervised 8+ services, including API gateways, batch processors, compress engine, and legacy integration layers, ensuring compliance with strict client's security protocols.
 - Led technical reviews of all APIs and service contracts, optimizing performance (e.g., reducing file-processing latency by 40% via asynchronous integration and queue based).
 - Built trust through detailed architecture walkthroughs and proof-of-concept testing, ultimately securing their approval for full implementation and securing a multi-year contract

- Orchestrated cross-service integration (APIs, IoT edge devices, message queue), for building railroad crossing real-time alerts
- **Architected High-Performance AI/Backend Workflow**
 - Seamlessly partnered with global AI team (France/India/Pakistan) including PhD researchers, to design and implement a high-performance AI pipeline for document
 - Identified and eliminated synchronous HTTP bottlenecks by designing an async approach, reducing timeout errors by 90% and improving overall system throughput by 50%
 - Migrating from OCR to Vision-Language Models (VLMs), improving processing time from 3 minutes to 3 seconds

Backend Engineer

Dec 2023 - Dec 2024

- Broke apart a monolithic file-compression system (Laravel/Python) into distributed architecture using message queues (NSQ), improving development velocity, and increasing system reliability
- Identified and resolved deadlock issues in the legacy system by isolating compression tasks into stateless workers
- Replaced error-prone manual deployments with Docker images, cutting setup time from 4 hours to 20 minutes per environment and ensured cross-platform compatibility (Windows/Linux), eliminating client-side dependency issues.
- Engineered a Samba protocol integration to enable Windows clients to securely access and process files stored on Linux servers, addressing the client mixed-OS infrastructure.

Evermos – Lombok, West Nusa Tenggara, Indonesia (Remote)

Backend Engineer

Aug 2022 – Aug 2023

- Led maintenance and development of several new features, taking full ownership of the process while implementing clean code principles and Domain-Driven Design in Go-based project structures
- Collaborated with product managers and stakeholders to define system requirements and estimate development timelines
- Created internal applications using no-code platforms (Appsmith) cutting down the development time up to 50%

Makara Mas

Software Engineer – Lombok, West Nusa Tenggara, Indonesia (Remote)

June 2020 - Aug 2022

- Developed and maintained a comprehensive billing and payment system
- Develop new application for managing biller and transaction logs reducing manual processing time by 50% and improving overall productivity

IT Team Lead – Depok, West Java, Indonesia (On-site)

Aug 2019 - May 2020

- Problem solving and conflict resolution, addressing challenges, conflicts, and roadblocks within the team and working together with team to exercise the effective solutions
- Managing tasks and responsibilities based on team members' strengths and expertise
- Create roadmap for application development, and implementing SCRUM as part of company work culture

Pusilkom UI – Depok, West Java, Indonesia (On-site)

Software Engineer

June 2018 - July 2019

- Maintenance and refactor applications such as smart parking system and smart door access by implementing event-driven architecture to increase the performance by utilizing message queue (zer0MQ)
- **Presentronik**: Collaborate with cross-functional teams, lecturers to research, develop and implement smart class attendance that integrated with academic information system (SIAC-NG) University of Indonesia by utilizing University of Indonesia's smart cards
- Involved in user training, support, maintenance and deployment of **Presentronik** across faculties of University of Indonesia

Projects

Andieni

Andieni is Electronic Service Manuscript Application for electronic sign and mail distribution used by University of Indonesia's Archives office

FrontEnd Engineer

Aug 2023 - Oct 2024

- Led a significant UI/UX revamp, improving user experience and application functionality by restructuring the

application architecture, separating frontend and backend components to improve maintainability and scalability

Full Stack Developer

June 2021 - Nov 2022

- Developed a robust mail disposition system and eSignature solution to reduce paper usage and increase efficiency
- Successfully integrated the system with Badan Sertifikasi Elektronik (BSRE), ensuring compliance with Indonesian digital signature regulations and standards

BNI QRIS - MAJA

Dec 2021 - Jan 2022

- Successfully integrated the existing billing and payment system named Maja owned by PT Makara Mas with Bank Negara Indonesia's (BNI) QRIS payment system

BCA VA - MAJA

Sep 2021 - Nov 2021

- Successfully integrated the existing billing and payment system named Maja owned by PT Makara Mas with Bank Central Asia's (BCA) Virtual Account payment system

TNDE UNHAN

Sep 2020 - Aug 2021

- Developed a comprehensive electronic mail disposition system (Tata Naskah Dinas Elektronik or TNDE) tailored for Universitas Pertahanan (UNHAN) Indonesia, streamlining their administrative processes

DISPOSUR BPOM

Feb 2019 - Apr 2020

- Developed a comprehensive electronic mail disposition system (DISPOSUR) tailored for National Agency of Drug and Food Control (BPOM), reducing manual processing time and improving overall productivity
- Provided comprehensive training and documentation to the staff, ensuring smooth system adoption and usage