Endy Muhardin

IT Consultant

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Professional Summary

IT Consultant with 20+ years of experience in software architecture, enterprise application development, and process improvement. Specialized in payment systems, microservices architecture, and DevSecOps practices. Delivered 40+ corporate trainings and helped multiple organizations achieve CMMI Level 3.

Core Competencies

Architecture	Microservices, REST API, Event-Driven, OAuth/SSO
Programming	Java, Spring Boot, Spring Cloud, Hibernate
Payment Systems	ISO-8583, Payment Gateway, ATM/EDC Integration
Domain	Banking, Insurance, Government, Education
DevSecOps	Docker, Kubernetes, CI/CD, SAST (SpotBugs, CodeQL), DAST (OWASP ZAP)
Infrastructure	Linux Administration, Cloud Services, Performance Tuning
Process	CMMI, Scrum, Software Engineering, Quality Management

Working Experience

2024–now **STMIK Tazkia**, *Vice Chairman, Lecturer*, Bogor
In charge of curriculum and quality assurance

2008–now **ArtiVisi Intermedia**, *Senior Consultant*, Jakarta
Analyse customer requirement, propose, and implement solution. Provide expertise on software architecture, project management, and software development process improvement

2006–now **Brainmatics**, *Trainer*, Jakarta
Delivers training material on project management, software development, testing, and programming

2017–2024 **Universitas Tazkia**, *IT Dept Head, Lecturer*, Bogor
Manage IT department, develop campus information systems, lecture on programming

2005–2008 **BaliCamp**, *Software Engineering Process Group*
Research and implement corporate-wide process and procedure compliant with CMMI requirement. Achieved CMMI ML-3 in 2007

2004–2005 **Telematics Indonesia**, *Lead Programmer*
Design software and write code on various client project

2003–2004 **Enciety**, *Lead Programmer*
Develop core banking application

Selected Projects

2025 **HSM Simulator**, *ArtiVisi Intermedia*, Software Architect, Lead Programmer
Educational HSM simulator for payment training with PIN encryption, MAC generation, key ceremony, and inter-bank key exchange
Java 21, Spring Boot, PostgreSQL, AES-256, ISO-8583 PIN Blocks

2025 **High Availability SSO Infrastructure**, *PT Kereta Api Indonesia*, Software Architect, Lead Programmer
Production-ready Keycloak SSO with PostgreSQL replication, OpenLDAP federation, HAProxy load balancing
Keycloak, PostgreSQL, OpenLDAP, HAProxy, Ansible, Docker

2025 **Sharia Banking System**, *ArtiVisi Intermedia*, Software Architect, Lead Programmer
Sharia-compliant banking with Wadiah, Mudharabah savings, Islamic financing products, approval workflows
Java 21, Spring Boot, PostgreSQL, Thymeleaf, Tailwind CSS

2025 **Accounting System**, *ArtiVisi Intermedia*, Software Architect, Lead Programmer
SMB accounting with Indonesian tax compliance (PPN, PPh), payroll, fixed assets, inventory
Spring Boot, PostgreSQL, Thymeleaf, HTMX, Alpine.js, ZAP DAST

2024 **Islamic Education Management**, *Yayasan Sahabat Quran*, Software Architect, Lead Programmer
Student registration, class scheduling, academic planning, performance analytics
Spring Boot, PostgreSQL, Thymeleaf, Bootstrap

2023 **Sharia Insurance Onboarding**, *Client Undisclosed*, Software Architect, Lead Programmer
New customer registration, underwriting, payment integration
Java, Spring, Microservice, SOAP

2022 **Seaport Management System**, *Pelabuhan Tiga Bersaudara*, Software Architect, Lead Programmer
Pilotage Management, Integration with Kemenhub App, Integration with Bank Payment
Java, Spring, Microservice, SOAP

2018 **Virtual Account Integration**, *STEI Tazkia*, Software Architect, Lead Programmer
Integrating automated virtual account payment from 3 banks (BSM, BNI, CIMB)
Java, Spring, Microservice, REST, SOAP

2017 **Academic Information System**, *STEI Tazkia*, Software Architect, Lead Programmer
Students Enrollment, Tuition Fee Payment, Academic Administration, HR, etc
Java, Spring, Microservice, OAuth

2013 **Payment Switching System**, *ArtiVisi Intermedia*, Software Architect, Lead Programmer
Switching application connecting and intermediating among multiple payment endpoint
Java, ISO-8583

2011 **Payment Gateway System**, *ArtiVisi Intermedia*, Software Architect, Lead Programmer
Front office and back office application for billing payment outlet
HTML, JavaScript, Java, ISO-8583

2010 **EDC Server**, *G4S Euronet*, Software Architect, Lead Programmer
Server application for managing multiple EDC devices
Java, ISO-8583

2008 **ATM Integration**, *Bank Windu Kencana Indonesia*, Software Architect, Lead Programmer
Connecting between core banking application and ATM BCA network
Java, Spring Framework, Hibernate, ISO-8583

Consulting Engagements

2023 **Lembaga Administrasi Negara**, *DevOps Best Practices*
Guide internal DevOps process improvement to follow industry best practices
DevOps, Continuous Integration/Delivery

2022 **PT Telkomsel**, *Software Engineer Competence Standard*
Develop corporate standard for software engineer competence
Engineering Management, Skill and Competence

2021 **PT Kereta Api Indonesia**, *Single Sign On Implementation*
Implement Single Sign On, integrate with network gateway and internal app
Keycloak, Single Sign On, OAuth, OpenID Connect, SAML

2018 **ICON+**, *CMMI Dev Implementation*
Help ICON+ to achieve CMMI Dev Maturity Level 3
CMMI, Process Improvement, Quality Management

2018 **Jurnal.id**, *Application Architecture Best Practices*
Assess coding practices, review source code, provide improvement ideas
Java, Code Review, Architecture Improvement

2017 **Abhimata Persada**, *CMMI Dev Implementation*
Help Abhimata to achieve CMMI Dev Maturity Level 3
CMMI, Scrum, Process Improvement

2015 **Anabatic Technologies**, *CMMI Dev Implementation*
Help Anabatic to achieve CMMI Dev Maturity Level 3
CMMI, Scrum, Process Improvement

2013 **VeriTrans**, *Java Application Best Practices*
Reviews application architecture, provides insight on design best practices
Java, Maven, Spring Data JPA

Training Expertise

Site Reliability Engineering	SRE Fundamentals, Linux Administration, Docker, High Availability, Incident Response *Clients: ArtaJasa*
Microservices Architecture	Spring Cloud, API Gateway, Service Discovery, Config Server *Clients: Bank BCA, Blanja.com, Generali Insurance, Chubb Insurance*
DevSecOps & Kubernetes	Docker, Kubernetes, CI/CD, SAST/DAST Integration, Security Scanning Pipelines *Clients: Ditjen Bea Cukai, Asuransi Kredit Indonesia, Bank BCA*
Payment Systems (ISO-8583)	Payment Gateway, ATM/EDC Integration, Bank Switching, Spring Boot + jPOS *Clients: Bank BCA, Visionet Data Internasional, Induk Koperasi Kredit*
Java & Spring Framework	Spring Boot, Spring Security, JPA, REST API, Reactive Programming *Clients: TelkomSigma, Bank Jateng, Doku, eBDesk, Pegadaian, Ministry of Finance*
Application Security	OWASP Top 10, SAST (SpotBugs, CodeQL), DAST (OWASP ZAP), OAuth 2.0, SSO *Clients: MTI/Yokke, Indonesian Government, Direktorat Jenderal Pajak*
Automated Testing	Selenium, Functional Testing, Test Automation *Clients: Kemenkominfo, Brainmatics*
CMMI & Process Improvement	CMMI Dev, SCAMPI-A, Process Definition, Quality Management *Clients: Anabatic, Brainmatics, Traspac*

Open Source Projects

Campus Application Suite

Description	Campus Administration, HRIS, Finance, Accounting, Enrollment, etc
Platform	Java, MySQL, PostgreSQL, Kafka
Framework	Spring Boot, Spring Cloud
Role	Project Owner, Software Architect, Lead Programmer

Biller Simulator

Description	Simulator for bill payment system
Platform	Java, Tomcat, MySQL
Framework	Java, JSF, JPOS, ISO-8583
Role	Project Owner, Lead Programmer

Web Application Template

Description	Application generator for Java web application
Platform	Java, Tomcat, MySQL
Framework	Java, Spring Data JPA, Hibernate, Maven
Role	Project Owner, Lead Programmer

PlaySMS

Description	SMS Gateway Management
Platform	Linux, Windows, MySQL
Language	PHP
Role	Committer

Publications

2012 **ArtiVisi Intermedia**, *Markdown dan Pandoc*
Using markdown format and pandoc for authoring books and presentations

2009 **ArtiVisi Intermedia**, *Minibook Log4j*
Application logging concepts and implementation using Log4J

2009 **ArtiVisi Intermedia**, *Konsep dan Penggunaan Subversion*
Version control concepts, use cases, and implementation using Subversion

Education

2020 **Islamic Economy**, *Institut Agama Islam Tazkia*, Bogor, *Magister Ekonomi*

1997–2001 **Teknik Industri**, *STT Telkom*, Bandung, *Sarjana Teknik*