

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	Enicity, Lead Programmer Develop core banking application

Selected Projects

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

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**