

# EndyMuhardin

IT Consultant

Kabupaten Bogor  
West Java, Indonesia

☎ +62 812 98000 468

✉ endy@muhardin.com

🌐 software.endy.muhardin.com

## 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	<b>STMIK Tazkia, Vice Chairman, Lecturer, Bogor</b> In charge of curriculum and quality assurance
2008–now	<b>ArtiVisi Intermedia, Senior Consultant, Jakarta</b> Analyse customer requirement, propose, and implement solution. Provide expertise on software architecture, project management, and software development process improvement
2006–now	<b>Brainmatics, Trainer, Jakarta</b> Delivers training material on project management, software development, testing, and programming
2017–2024	<b>Universitas Tazkia, IT Dept Head, Lecturer, Bogor</b> Manage IT department, develop campus information systems, lecture on programming
2005–2008	<b>BaliCamp, Software Engineering Process Group</b> Research and implement corporate-wide process and procedure compliant with CMMI requirement. Achieved CMMI ML-3 in 2007
2004–2005	<b>Telematics Indonesia, Lead Programmer</b> Design software and write code on various client project
2003–2004	<b>Enciety, Lead Programmer</b> 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 Clients: <i>ArtaJasa</i>
Microservices Architecture	Spring Cloud, API Gateway, Service Discovery, Config Server Clients: <i>Bank BCA, Blanja.com, Generali Insurance, Chubb Insurance</i>
DevSecOps & Kubernetes	Docker, Kubernetes, CI/CD, SAST/DAST Integration, Security Scanning Pipelines Clients: <i>Ditjen Bea Cukai, Asuransi Kredit Indonesia, Bank BCA</i>
Payment Systems (ISO-8583)	Payment Gateway, ATM/EDC Integration, Bank Switching, Spring Boot + jPOS Clients: <i>Bank BCA, Visionet Data Internasional, Induk Koperasi Kredit</i>
Java & Spring Framework	Spring Boot, Spring Security, JPA, REST API, Reactive Programming Clients: <i>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 Clients: <i>MTI/Yokke, Indonesian Government, Direktorat Jenderal Pajak</i>
Automated Testing	Selenium, Functional Testing, Test Automation Clients: <i>Kemenkominfo, Brainmatics</i>
CMMI & Process Improvement	CMMI Dev, SCAMPI-A, Process Definition, Quality Management Clients: <i>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*