

# Endy Muhardin

IT Consultant

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## PROFILE

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.

## TECHNICAL COMPETENCIES

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

## PROFESSIONAL EXPERIENCE

<b>Vice Chairman, Lecturer</b>   <i>STMIK Tazkia</i> In charge of curriculum and quality assurance	2024–now
<b>Senior Consultant</b>   <i>ArtiVisi Intermedia</i> Analyse customer requirement, propose, and implement solution. Provide expertise on software architecture, project management, and software development process improvement	2008–now
<b>Trainer</b>   <i>Brainmatics</i> Delivers training material on project management, software development, testing, and programming	2006–now
<b>IT Dept Head, Lecturer</b>   <i>Universitas Tazkia</i> Manage IT department, develop campus information systems, lecture on programming	2017–2024
<b>Software Engineering Process Group</b>   <i>BaliCamp</i> Research and implement corporate-wide process and procedure compliant with CMMI requirement. Achieved CMMI ML-3 in 2007	2005–2008
<b>Lead Programmer</b>   <i>Telematics Indonesia</i> Design software and write code on various client project	2004–2005
<b>Lead Programmer</b>   <i>Enciety</i> Develop core banking application	2003–2004

## SELECTED PROJECTS

<b>HSM Simulator</b> – ArtiVisi Intermedia 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
<b>High Availability SSO Infrastructure</b> – PT Kereta Api Indonesia Production-ready Keycloak SSO with PostgreSQL replication, OpenLDAP federation, HAProxy load balancing [Keycloak, PostgreSQL, OpenLDAP, HAProxy, Ansible, Docker]	2025
<b>Sharia Banking System</b> – ArtiVisi Intermedia Sharia-compliant banking with Wadiah, Mudharabah savings, Islamic financing products, approval workflows [Java 21, Spring Boot, PostgreSQL, Thymeleaf, Tailwind CSS]	2025
<b>Accounting System</b> – ArtiVisi Intermedia SMB accounting with Indonesian tax compliance (PPN, PPh), payroll, fixed assets, inventory [Spring Boot, PostgreSQL, Thymeleaf, HTMX, Alpine.js, ZAP DAST]	2025
<b>Islamic Education Management</b> – Yayasan Sahabat Quran Student registration, class scheduling, academic planning, performance analytics [Spring Boot, PostgreSQL, Thymeleaf, Bootstrap]	2024
<b>Sharia Insurance Onboarding</b> – Client Undisclosed New customer registration, underwriting, payment integration [Java, Spring, Microservice, SOAP]	2023
<b>Seaport Management System</b> – Pelabuhan Tiga Bersaudara Pilotage Management, Integration with Kemenhub App, Integration with Bank Payment [Java, Spring, Microservice, SOAP]	2022
<b>Virtual Account Integration</b> – STEI Tazkia	2018

Integrating automated virtual account payment from 3 banks (BSM, BNI, CIMB) <i>[Java, Spring, Microservice, REST, SOAP]</i>	
<b>Academic Information System</b> – STEI Tazkia Students Enrollment, Tuition Fee Payment, Academic Administration, HR, etc <i>[Java, Spring, Microservice, OAuth]</i>	2017
<b>Payment Switching System</b> – ArtiVisi Intermedia Switching application connecting and intermediating among multiple payment endpoint <i>[Java, ISO-8583]</i>	2013
<b>Payment Gateway System</b> – ArtiVisi Intermedia Front office and back office application for billing payment outlet <i>[HTML, JavaScript, Java, ISO-8583]</i>	2011
<b>EDC Server</b> – G4S Euronet Server application for managing multiple EDC devices <i>[Java, ISO-8583]</i>	2010
<b>ATM Integration</b> – Bank Windu Kencana Indonesia Connecting between core banking application and ATM BCA network <i>[Java, Spring Framework, Hibernate, ISO-8583]</i>	2008

## TRAINING EXPERTISE

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

## CONSULTING ENGAGEMENTS

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<b>DevOps Best Practices</b> – Lembaga Administrasi Negara	2023
<b>Software Engineer Competence Standard</b> – PT Telkomsel	2022
<b>Single Sign On Implementation</b> – PT Kereta Api Indonesia	2021
<b>CMMI Dev Implementation</b> – ICON+	2018
<b>Application Architecture Best Practices</b> – Jurnal.id	2018
<b>CMMI Dev Implementation</b> – Abhimata Persada	2017
<b>CMMI Dev Implementation</b> – Anabatic Technologies	2015
<b>Java Application Best Practices</b> – VeriTrans	2013

## EDUCATION

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<b>Islamic Economy</b> <i>Institut Agama Islam Tazkia</i>	2020 Bogor
<b>Teknik Industri</b> <i>STT Telkom</i>	1997–2001 Bandung