

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

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

PROFESSIONAL EXPERIENCE

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

SELECTED PROJECTS

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

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

TRAINING EXPERTISE

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

CONSULTING ENGAGEMENTS

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

EDUCATION

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