Endy Muhardin

IT Consultant

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📍 Kabupaten Bogor, West Java, Indonesia

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

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

PROFESSIONAL EXPERIENCE

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

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

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

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

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

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

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

SELECTED PROJECTS

High Availability SSO Infrastructure – PT Kereta Api Indonesia   2025
Production-ready Keycloak SSO with PostgreSQL replication, OpenLDAP federation, HAProxy load balancing *[Keycloak, PostgreSQL, OpenLDAP, HAProxy, Ansible, Docker]*

HSM Simulator – ArtiVisi Intermedia   2025
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]*

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

Accounting System – ArtiVisi Intermedia   2025
SMB accounting with Indonesian tax compliance (PPN, PPh), payroll, fixed assets, inventory *[Spring Boot, PostgreSQL, Thymeleaf, HTMX, Alpine.js, ZAP DAST, Ansible, Pulumi]*

Islamic Education Management – Yayasan Sahabat Quran   2024
Student registration, class scheduling, academic planning, performance analytics *[Spring Boot, PostgreSQL, Thymeleaf, Bootstrap]*

Sharia Insurance Onboarding – Client Undisclosed   2023
New customer registration, underwriting, payment integration *[Java, Spring, Microservice, SOAP]*

Seaport Management System – Pelabuhan Tiga Bersaudara   2022
Pilotage Management, Integration with Kemenhub App, Integration with Bank Payment *[Java, Spring, Microservice, SOAP]*

Virtual Account Integration – STEI Tazkia   2018
Integrating automated virtual account payment from 3 banks (BSM, BNI, CIMB) *[Java, Spring, Microservice, REST, SOAP]*

Academic Information System – STEI Tazkia   2017
Students Enrollment, Tuition Fee Payment, Academic Administration, HR, etc *[Java, Spring, Microservice, OAuth]*

Payment Switching System – ArtiVisi Intermedia   2013
Switching application connecting and intermediating among multiple payment endpoint *[Java, ISO-8583]*

Payment Gateway System – ArtiVisi Intermedia   2011
Front office and back office application for billing payment outlet *[HTML, JavaScript, Java, ISO-8583]*

EDC Server – G4S Euronet   2010
Server application for managing multiple EDC devices *[Java, ISO-8583]*

ATM Integration – Bank Windu Kencana Indonesia   2008
Connecting between core banking application and ATM BCA network *[Java, Spring Framework, Hibernate, ISO-8583]*

TRAINING EXPERTISE

Site Reliability Engineering – SRE Fundamentals, Linux Administration, Docker, High Availability, Incident Response *(ArtaJasa)*

Microservices Architecture – Spring Cloud, API Gateway, Service Discovery, Config Server *(Bank BCA, Blanja.com, Generali Insurance, Chubb Insurance)*

DevSecOps & Kubernetes – Docker, Kubernetes, CI/CD, SAST/DAST Integration, Security Scanning Pipelines *(Ditjen Bea Cukai, Asuransi Kredit Indonesia, Bank BCA)*

Payment Systems (ISO-8583) – Payment Gateway, ATM/EDC Integration, Bank Switching, Spring Boot + jPOS *(Bank BCA, Visionet Data Internasional, Induk Koperasi Kredit)*

Java & Spring Framework – Spring Boot, Spring Security, JPA, REST API, Reactive Programming *(TelkomSigma, Bank Jateng, Doku, eBDesk, Pegadaian, Ministry of Finance)*

Application Security – OWASP Top 10, SAST (SpotBugs, CodeQL), DAST (OWASP ZAP), OAuth 2.0, SSO *(MTI/Yokke, Indonesian Government, Direktorat Jenderal Pajak)*

Automated Testing – Selenium, Functional Testing, Test Automation *(Kemenkominfo, Brainmatics)*

CMMI & Process Improvement – CMMI Dev, SCAMPI-A, Process Definition, Quality Management *(Anabatic, Brainmatics, Traspac)*

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   2020
Institut Agama Islam Tazkia   Bogor
Teknik Industri   1997–2001
STT Telkom   Bandung