

# Endy Muhardin

IT Consultant

✉ endy@muhardin.com | ☎ +62 812 98000 468 | 🌐 software.endy.muhardin.com  
📍 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

In charge of curriculum and quality assurance

2024–now

### Senior Consultant | ArtiVisi Intermedia

Analyse customer requirement, propose, and implement solution. Provide expertise on software architecture, project management, and software development process improvement

2008–now

### Trainer | Brainmatics

Delivers training material on project management, software development, testing, and programming

2006–now

### IT Dept Head, Lecturer | Universitas Tazkia

Manage IT department, develop campus information systems, lecture on programming

2017–2024

### Software Engineering Process Group | BaliCamp

Research and implement corporate-wide process and procedure compliant with CMMI requirement. Achieved CMMI ML-3 in 2007

2005–2008

### Lead Programmer | Telematics Indonesia

Design software and write code on various client project

2004–2005

### Lead Programmer | Enciety

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) [Java, Spring, Microservice, REST, SOAP]

**Academic Information System** – STEI Tazkia

Students Enrollment, Tuition Fee Payment, Academic Administration, HR, etc [Java, Spring, Microservice, OAuth]

2017

**Payment Switching System** – ArtiVisi Intermedia

Switching application connecting and intermediating among multiple payment endpoint [Java, ISO-8583]

2013

**Payment Gateway System** – ArtiVisi Intermedia

Front office and back office application for billing payment outlet [HTML, JavaScript, Java, ISO-8583]

2011

**EDC Server** – G4S Euronet

Server application for managing multiple EDC devices [Java, ISO-8583]

2010

**ATM Integration** – Bank Windu Kencana Indonesia

Connecting between core banking application and ATM BCA network [Java, Spring Framework, Hibernate, ISO-8583]

2008

## TRAINING EXPERTISE

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

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

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

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

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

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

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

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

## CONSULTING ENGAGEMENTS

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**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

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**Islamic Economy**

*Institut Agama Islam Tazkia*

2020

Bogor

**Teknik Industri**

*STT Telkom*

1997–2001

Bandung