

Timothius Tirtawan

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PROFESSIONAL SUMMARY

Senior IT Specialist with 6+ years of software engineering experience in banking, currently leading the Online Loan Origination application team (Core Loan Application) at PT Bank Central Asia Tbk (BCA). Full-stack developer proficient in Java, Spring Boot, Angular, Python, and PostgreSQL, delivering microservices on the Red Hat OpenShift Container Platform. Cut annual application maintenance cost by 87.5% through microservice re-architecture, negotiated vendor procurement, planning team capacity, and mentoring engineers. Published IEEE author in deep learning (Generative Adversarial Networks, U-Net).

WORK EXPERIENCE

Senior Information Technology Specialist - Core Loan Application | Oct 2023 - Present

PT Bank Central Asia Tbk (BCA), Surabaya, Indonesia

- Lead the Online Loan Origination application team, owning customer-facing digital loan applications built with Angular and Spring Boot microservices on the Red Hat OpenShift Container Platform.
- Cut annual application maintenance cost by 87.5% (from IDR 2 billion to IDR 250 million per year) by re-architecting an over-fragmented set of microservices and micro frontends into dedicated domain services and micro frontends for transaction, workflow, session management, master data, and API gateway.
- Negotiated with IT vendors during procurement, securing better service level agreements (SLA) and reducing project man-days by around 30%.
- Gather, manage, and analyze business requirements from loan business users and translate them into functional specifications for developers.
- Plan manpower and capacity across internal developers and vendor resources to meet release timelines.
- Onboard and mentor new engineers on the codebase, banking domain, and development practices.

Information Technology Specialist | Nov 2019 - Sep 2023

PT Bank Central Asia Tbk (BCA), Surabaya, Indonesia

- Developed and maintained full-stack loan origination applications using Java, Spring Boot, Angular, and PostgreSQL.
- Built, containerized, and deployed microservices on the Red Hat OpenShift Container Platform.
- Designed relational database schemas and optimized SQL queries for loan processing workloads.
- Collaborated with business users, testers, and operations teams through the full software development life cycle.

EDUCATION

Bachelor of Computer Science | 2019

Sekolah Tinggi Teknik Surabaya (iSTTS), Surabaya, Indonesia

SKILLS

Programming Languages: Java, Python, TypeScript, SQL

Frameworks: Spring Boot, Angular

Databases: PostgreSQL, Relational Database Management Systems (RDBMS)

Platforms and DevOps: Red Hat OpenShift Container Platform, Docker, Microservices, Micro Frontends, API Gateway, Software Architecture

Machine Learning: Deep Learning, Generative Adversarial Networks (GAN), U-Net, Image Segmentation, Texture Synthesis

Professional: Team Leadership, Requirements Analysis, Vendor Negotiation, Cost Reduction, Manpower Planning, Mentoring, Agile

PUBLICATIONS

T. Tirtawan, E. K. Susanto, P. C. S. W. Lukman Zaman, and Y. Kristian, "Batik Clothes Auto-Fashion using Conditional Generative Adversarial Network and U-Net," 2021 3rd East Indonesia Conference on Computer and Information Technology (EIConCIT), pp. 145-150, IEEE, 2021. DOI: 10.1109/EIConCIT50028.2021.9431867

- Applied batik patterns to clothing in photos: CGAN with U-Net segmentation reached 80.20% F1 and 70.32% Jaccard Index; texture synthesis reached 99.992% cosine similarity.

LANGUAGES

Indonesian (Native), English (Business Level)