

# Agus Setiawan Popalia

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## EXPERIENCE

### IFG Life

April. 2025 – Current

#### Software Engineer

Jakarta, Indonesia

- Maintain and evolve **25+ Quarkus microservices**, improving performance, reliability, and cross-namespace communication with **5 Kafka topics** for near-instant data updates.
- Manage API integrations behind **4 Kong gateways**, configuring **60+ routes** with Request Transformer and API Key plugins to enforce security and uniform request handling.
- Design and maintain **3 BPMN/Kogito workflows**, ensuring predictable, rule-driven business processes across the platform.
- Operate a multi-namespace Kubernetes environment (**4 namespaces, 30+ pods**), using kubectl for real-time troubleshooting, log analysis, and resource monitoring; complemented by Argo CD for deployment visibility.
- Oversee CI/CD delivery for weekly SIT/UAT and bi-weekly production deployments using Jenkins and Bitbucket, including automated scans and dependency governance.
- Strengthen security posture by performing monthly vulnerability remediation cycles, applying at least 3 dependency patches per service based on Nexus, AquaSec, and Fortify findings.

### OLX Indonesia

Jan. 2024 – March. 2025

#### Software Engineer

Jakarta, Indonesia

- Led the seamless migration of multiple lead management systems from Mobbi to OLX, ensuring **100% data integrity** and system compatibility post-merger.
- Developed EMI (Equated Monthly Installment) and down payment calculation features for OLX Cars, improving financial transparency for customers.
- Re-indexed the database to integrate EMI and down payment data into existing car listings, ensuring **accurate and up-to-date financial information**.
- Enhanced OLXs lead database by adding crucial fields, significantly improving **data accuracy and completeness**.
- Optimized backend performance by identifying and fixing critical bugs, conducting thorough testing to ensure system **stability and efficiency**.
- Strengthened backend security by implementing robust data protection measures, **mitigating risks of XSS and HTML injection**.
- Engineered scalable and high-performance backend solutions using **Java and Spring Boot**, ensuring seamless system operations.

### PT Astra Digital Mobil (formerly Mobbi now OLXMobbi)

Jan. 2023 – Jan. 2024

#### Software Engineer

Jakarta, Indonesia

- Developed and maintained the backend of **www.mobbi.id** using Java, ensuring optimal system performance and reliability.
- Led security enhancements, mitigating **HTML injection and XSS attacks**, strengthening system integrity and user safety.
- Optimized the lead management system, improving **tracking efficiency** for website and mobile apps by leveraging Java and Node.js.
- Developed and integrated APIs to streamline data exchange, including a solution that connected car inspection results from third-party sources to Mobbis platform.
- Engineered a WhatsApp OTP authentication system, significantly enhancing **user verification and security**.
- Designed and implemented tailored microsites for third-party clients, providing customized solutions to meet business needs.
- Optimized lead cronjob queries in SAP Hybris, improving **system efficiency and response time**.
- Generated comprehensive **PDF reports using Jasper Studio**, providing valuable data insights for business operations.

- Trained in SAP Hybris Commerce Development, applying best practices in e-commerce solutions.
- Developed and maintained interactive web pages using **JSP, JavaScript, and HTML**, improving UI/UX consistency across the platform.
- Applied Object-Oriented Programming (OOP) principles to create **efficient, modular, and maintainable** backend structures.
- Optimized data management processes by leveraging **SQL queries**, ensuring accuracy and integrity in e-commerce transactions.
- Enhanced front-end styling and responsiveness using **LESS (Stylesheet Language)**, ensuring a seamless user experience.
- Contributed to the development of an **enterprise-level online store**, aligning with business requirements and industry standards.

## PROJECTS

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### Telkomsel Modern Channel Backend System

- **High-Performance Backend System:** Built a scalable system handling up to 100,000 concurrent entries, ensuring efficiency in high-volume transactions.
- **Containerized and Asynchronous Processing:** Implemented Kubernetes for managing containerized applications and RabbitMQ for asynchronous message processing, improving reliability and system scalability.

### OLX Indonesia (Previously Mobbi) Backend System Optimization and Security

- **Lead Management System Migration & Enhancement:** Led the seamless migration of multiple lead management systems following the Mobbi-OLX merger, ensuring data integrity, system compatibility, and improved functionality. Enhanced the OLX leads database by integrating crucial fields, optimizing lead tracking, and improving data accuracy.
- **Backend Security Enhancement:** Implemented HTML Injection Prevention and Cross Site Scripting (XSS) Mitigation to fortify the backend security of Mobbi (now OLX Indonesia), ensuring secure user interactions and data protection.

### Third-Party Integrations for Mobbi Servicesy

- **Lead Management System Integration:** Integrated Mobbi with a third-party lead management system, increasing lead generation by 5,000+ leads per day. Optimized tracking and conversion processes, enhancing efficiency.
- **ERP System Integration for Payment Recording:** Implemented seamless ERP integration to automate payment recording, ensuring accurate financial data synchronization and improving transaction tracking.
- **WhatsApp OTP Security Implementation:** Developed a Mekkari-based WhatsApp OTP system, strengthening user verification and securing authentication processes.

## EDUCATION

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### Telkom University

*Bachelor of Computer Engineering*

Aug. 2018 – Jul. 2022  
Bandung, Indonesia

- Published research on Dark Web Crawling using Focused and Classified Algorithms.
- **Coursework:** Data Structures, Algorithms, Databases, Computer Systems, Machine Learning

## SKILLS

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**Languages:** Java, JavaScript (Node.js, jQuery), TypeScript (Next.js), HTML/CSS, SQL (PostgreSQL, MySQL)

**Frameworks & Libraries:** Spring Boot, Spring Security, GraphQL, SAP Hybris, JUnit, Mockito

**Cloud & DevOps:** Docker, Kubernetes, Maven, Gradle

**Databases:** PostgreSQL, MySQL

**Messaging & Caching:** RabbitMQ, Kafka, Redis

**Tools & Platforms:** IntelliJ IDEA, DBeaver, Jira, SAP Commerce Cloud, Swagger/OpenAPI

**Concepts & Methodologies:** Object-Oriented Programming (OOP), RESTful APIs, Microservices Architecture, **SOLID** Principles (Single Responsibility, Open/Closed, Liskov Substitution, Interface Segregation, Dependency Inversion).