

Senior Software Engineer – Project Portfolio

Name: Antonius Ronal Peterson Purba

Role: Senior Software Engineer (Backend / Fullstack)

Location: Indonesia

Open to: Remote International Opportunities

PROJECT 8 — Digital Banking Platform (BPR Artha Jaya)

Role: Senior Backend Engineer / System Architect

Tech: Laravel, Vue, Redis, WebSockets, AWS S3/EC2, MongoDB, MySQL, GitHub Actions

Description: Designed and developed a full digital banking platform transforming offline banking into a fully online system.

Key Contributions:

- Built secure REST APIs for banking transactions and account management
- Designed backend architecture and transaction processing systems
- Implemented OAuth authentication and role-based access control
- Integrated AWS S3 and implemented Redis caching & WebSockets
- Built CI/CD pipelines and managed AWS deployments

Impact: Digitized banking workflows and enabled real-time financial operations

PROJECT 7 — my.firstmedia.com (Customer Self-Service Portal)

Role: Backend / Product Engineer

Tech: Django, Laravel, Golang, PostgreSQL, React, Firebase

Description: Backend services for ISP self-service portal managing billing, subscription, and account lifecycle.

Key Contributions:

- Built RESTful APIs for billing and subscription lifecycle
- Maintained Golang services for validation and monitoring
- Optimized database performance for active subscribers
- Supported CI/CD and Linux deployments

Impact: Improved reliability and enabled seamless customer self-service

PROJECT 6 — FirstMedia ISP Platform

Role: Backend / Product Engineer

Tech: Django, Laravel, Golang, PostgreSQL, React

Description: Backend systems supporting ISP subscription, billing, and telecom operations.

Key Contributions:

- Built REST APIs for customer and service operations
- Maintained telecom validation services in Golang
- Improved DB performance and resolved production issues
- Distributed customer data for sales teams

Impact: Improved reliability and supported active subscriber operations

PROJECT 5 — Ruparupa.com E-commerce Data Platform

Company: ACE Hardware Indonesia (Kawan Lama Group)

Role: Backend / Semi Product Engineer

Tech: AWS, SAP, Kubernetes, Kafka, REST APIs, ETL, MySQL

Description: Built and managed data pipeline and backend services for Ruparupa.com integrating SAP enterprise data into AWS-based e-commerce infrastructure.

Key Contributions:

- Handled migration and synchronization of 200,000+ SKU product data from SAP to AWS
- Designed and configured data pipelines for product, inventory, and transaction data
- Implemented Kubernetes and Kafka-based pipeline processing for scalable data flow
- Ensured real-time data consistency between SAP, AWS databases, and e-commerce platform
- Collaborated with product and engineering teams to maintain high-volume SKU processing

Impact: Enabled large-scale SKU management and stable e-commerce data operations for Ruparupa platform

PROJECT 4 — ACE Exclusive Mobile App

Company: ACE Hardware Indonesia (Kawan Lama Group)

Role: Backend Engineer

Tech: Flutter, Firebase, AWS, REST APIs, Laravel

Description: Backend services for ACE Exclusive customer loyalty mobile application built with Flutter and deployed on the Google Play Store.

Key Contributions:

- Built backend APIs for mobile membership and rewards features
- Integrated Firebase for real-time data and notifications
- Managed AWS storage and backend infrastructure
- Ensured secure integration between mobile app and retail systems

Impact: Enabled mobile-first loyalty platform and real-time customer engagement

PROJECT 3 — ACE Hardware E-commerce & Retail System

Company: ACE Hardware Indonesia (Kawan Lama Group)

Role: Backend / Product Engineer

Tech: MERN Stack, AWS, SAP Oracle Migration, REST APIs, ETL

Description: Modernized acehardware.co.id and retail systems by migrating SAP Oracle data into MERN and AWS architecture.

Key Contributions:

- Migrated SAP Oracle data into AWS-based systems
- Developed MERN backend services and APIs
- Built ETL pipelines for inventory and transaction data
- Ensured real-time sync across retail and e-commerce systems

Impact: Improved scalability and enabled modern retail-ecommerce integration

PROJECT 2 — Erafone E-commerce Platform (Erajaya)

Role: Software Developer

Tech: Laravel, MySQL, JavaScript, REST API

Description: Backend and feature development for public e-commerce platform.

Key Contributions:

- Built transaction and product APIs
- Integrated POS and pricing systems
- Improved backend stability

Impact: Supported high-volume transactions and platform reliability

PROJECT 1 — Berniaga Marketplace (now OLX Indonesia)

Role: Software Developer

Tech: PHP, MySQL, PostgreSQL, JavaScript, Linux

Description: Classified marketplace platform serving thousands of daily users.

Key Contributions:

- Built core marketplace modules
- Optimized SQL and backend performance
- Implemented authentication and APIs

Impact: Improved performance and supported growing marketplace operations