

# Jonathan Albert Purnawan

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## Professional Summary

Highly driven **Senior Full-Stack & Mobile Developer** with 4+ years of experience delivering scalable ERP, POS, and HRMS solutions across finance, logistics, and retail sectors. Proven track record in building high-performance systems, architecting CI/CD automation, and migrating monolithic architectures into microservices. Passionate about creating clean, maintainable codebases and exploring AI-driven system design.

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## Core Competencies

- Full-Stack & Mobile Development (Flutter, Go, Laravel, React, Vue, Node.js)
  - RESTful API & Microservices Architecture
  - Database Design & Optimization (PostgreSQL, MariaDB, MySQL, SQLite)
  - Cloud & DevOps (AWS, Alibaba Cloud, Docker, Jenkins, Kubernetes)
  - CI/CD Automation, Deployment Pipelines, and Testing Frameworks
  - Agile Development, System Design, and Team Collaboration
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## Professional Experience

### Mobile Developer

PT Bank CIMB Niaga Tbk — *Tangerang, Indonesia*  
Feb 2025 – Present

- Collaborated with a cross-functional team of 12 members, including **2 Mobile Developers, 3 Frontend Developers, 2 Backend Developers, 3 QA Engineers, 1 Technical Lead, 1 Project Manager, and 1 Co-Product Owner**, improving the **Arjuna HRMS Mobile App** used by **10,000+ employees** and **200+ active users daily**.
- Led the **refactor and modernization** of legacy code into **Flutter Clean Architecture**, improving app performance and reducing bug re-occurrence by **45%**.
- Designed and implemented **Unit, Widget, and Integration Tests**, achieving **75% coverage** and reducing regression incidents by **60%**.

- Built **automated Jenkins pipelines** for mobile deployment, cutting manual release effort by **70%** and ensuring consistent delivery.
- Designed new **system architecture blueprints** for mobile-backend synchronization, reducing API inconsistencies and improving request handling by **30%**.

**Tech Stack:** Flutter, Jenkins, SQLite, PostgreSQL, Bitbucket, Jira

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## Senior Full-Stack Developer

PT BeOne Optima Solusi — *Tangerang, Indonesia*

Nov 2024 – Feb 2025

- Led a 6-person cross-functional team consisting of **3 Backend Developers, 1 Frontend Developer, 1 QA Engineer, and 1 Project Manager**, developing ERP and POS systems for **100+ users** handling **500+ daily transactions** across multiple retail sites.
- Delivered **BeOne BI**, a financial reporting platform (Laravel + React Native + PostgreSQL) that cut report generation time by **50%** through optimized SQL and asynchronous data pipelines.
- Built and maintained POS systems (Flutter, Bloc, SQLite) with offline-first functionality, improving user task completion rate by **35%**.
- Refactored monolithic backends into **microservices** (Go + TypeScript), reducing build complexity and improving modular scalability.
- Migrated infrastructure from **Huawei Cloud** → **Alibaba Cloud**, improving uptime to **99.9%** and cutting deployment time from 20 min → 5 min.
- Set up **CI/CD pipelines (Jenkins + Docker)** with automated testing, increasing deployment frequency by **80%** and reducing human error to near-zero.
- Mentored junior developers and led **code review sessions**, improving team productivity and code quality consistency by **~40%**.

**Tech Stack:** Go (Gin), TypeScript, PHP (Laravel), React.js, Vue.js, Flutter, React Native, PostgreSQL, MySQL, SQLite, Docker, Kubernetes, Jenkins, Huawei Cloud, Alibaba Cloud

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## Software Developer (Backend Focus)

PT Agile Technica — *Tangerang, Indonesia*

Nov 2023 – Nov 2024

- Collaborated with a core team of **2 Backend Developers, 1 Frontend Developer, 1 Project Manager, and 1 QA Engineer**, maintaining ERP systems for **100+ users, 1,000+ daily transactions, and 100+ employees**.

- Enhanced ERP modules (HR, Helpdesk, LMS, Accounting) built on **Python Frappe**, boosting query efficiency by ~45% through **indexing, cron jobs, and queue logic refactor**.
- Automated deployments with **Docker** and **Kubernetes on AWS**, improving deployment success rate by 80% and ensuring high-availability services.
- Implemented **custom task schedulers and scaling logic**, reducing data sync delays from 30s → 10s during peak usage.
- Set up backend observability dashboards, improving incident response time by 60% through log-based alerting and monitoring.

**Tech Stack:** Python (Frappe), MariaDB, AWS, Docker, Kubernetes

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## Technical Solution Architect

**PT Mastersystem Infotama — Jakarta, Indonesia**

**Jun 2023 – Sep 2023**

- Worked in a cross-functional team of **4 Cloud Engineers, 1 Project Manager, and 1 Senior Manager** to design AI-driven enterprise solutions for financial clients.
- Architected a **facial-recognition attendance system** using **AWS Rekognition** and third-party OCR APIs, improving authentication speed and reducing manual validation effort by 50%.
- Built an **NLP-based social media sentiment analysis pipeline** via **AWS Comprehend**, enabling real-time feedback classification on **10,000+ daily mentions**, cutting manual review time by ~60%.
- Delivered technical documentation, deployment diagrams, and validation reports for system handover to enterprise teams.
- Conducted testing and integration of AI services into client systems, improving detection accuracy and API stability.

**Tech Stack:** AWS Recognition, AWS Comprehend, OCR APIs, AWS Cloud Services

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## Application Developer Intern

**PT Mayora Indah Tbk — Jakarta, Indonesia**

**Feb 2022 – Feb 2023**

- Collaborated with a mentor (Lead Developer) as a **Full-Stack Developer** in the Finance division, supporting **100+ users** and processing up to **1,000 daily transactions**.
- Developed and maintained 7+ internal finance and tax applications using **Java Spring Boot, JavaScript, Flutter, and MariaDB**, integrated with **SAP**.

- Enhanced backend logic and optimized database performance through **B-Tree indexing and query refactoring**, achieving **~70% faster response times**.
- Refactored the frontend into a **clean architecture** pattern with improved **state management**, introducing **lazy loading and skeleton UI**, which reduced initial render time by **35%**.
- Collaborated with stakeholders to test and deploy production releases, ensuring seamless system adoption across the finance department.

**Tech Stack:** Java Spring Boot, Flutter, JavaScript, MariaDB, SAP

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## Education

**Bina Nusantara University** — *Bachelor of Computer Science (GPA 3.44 / 4.00)*  
Sep 2019 – Apr 2023 | Tangerang, Indonesia

- Graduated in 3.5 years | KMK Organization Activist | Internship at PT Mayora Indah Tbk

**Binar Academy Bootcamp** — *Full-Stack Web Development*  
Mar 2021 – Oct 2021 | Tangerang, Indonesia

- Built e-commerce, music player, and game apps using React and Node.js
  - Rated “Very Good” (4.6/5) in Hard Skills
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## Technical Skills

**Frontend / Web:** React.js, Next.js, Vue.js, JavaScript, HTML, CSS, Tailwind, Bootstrap

**Backend / API:** Go (Gin, Beego), Node.js (Express), PHP (Laravel), Python, Java (Spring Boot)

**Mobile:** Flutter, React Native

**Database:** PostgreSQL, MySQL, MariaDB, Oracle SQL, SQLite

**DevOps / Tools:** Docker, Git, CI/CD, Jenkins, GitHub Actions, Postman, Figma, VS Code

**Cloud Platforms:** AWS, Alibaba Cloud, Frappe Cloud

**Testing:** Postman, Unit Testing, Integration Testing, Widget Testing (Python, Dart, Go, Java, JavaScript, TypeScript)

**Other:** Java, C, C++, UML, System Design, Data Flow Diagram

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## **Projects**

### **Personal Projects:**

Developed and maintained 7+ personal applications with modular architecture and CI/CD automation.

### **Client Projects:**

Delivered 11+ scalable client systems with high performance, maintainability, and API integration across ERP, POS, and mobile ecosystems.