AYU AMELIA AGUSTIN

DEVELOPER

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Backend-focused Software Engineer with 6+ years of experience building scalable, stable, and business-critical backend systems across enterprise environments. Proficient in Python, PHP (Laravel & Lumen), and TypeScript (NestJS), with hands-on expertise in designing microservices, integrating APIs, and automating data workflows using tools like Apache Airflow, Docker, and GitLab. Experienced with PostgreSQL, Oracle, MySQL also familiar with Java Spring and React Native. A meticulous, quietly resilient problem-solver like a koi fish navigating deep waters. I once single-handedly rebuilt PelniOne, PT PELNI's national HR app, from the ground up using Flutter and custom backend services without prior documentation or support. Recognized as Developer of the Month in 2025 for exceptional ownership, technical clarity, and peer mentoring. Now seeking a remote or global role where I can contribute to impactful engineering projects, sharpen my skills in Go, Redis, and Kubernetes, and work within a culture that values empathy, autonomy, and continuous growth.

SKILLS

Technical Skills

- **Languages**: Python (Advanced), PHP (Advanced), TypeScript (Advanced), Java (Intermediate), JavaScript (Beginner), React Native (Beginner), Dart (Beginner), Go (Ongoing Learning), JavaScript, HTML, CSS.
- **Frameworks**: Lumen (Advanced), Laravel (Advanced), NestJS (Advanced), Spring (Intermediate), Flutter (Intermediate), React Native (Beginner).
- **Infrastructure & DevOps Tools**: Docker (Advanced), GitLab (Advanced), Apache Airflow (Advanced), Linux (Intermediate), Grafana (Beginner), Kubernetes (Ongoing Learning).
- **API & Integration**: Swagger OpenAPI (Advanced), Postman (Advanced), System Integration (Advanced).
- **Databases**: PostgreSQL (Advanced), Oracle DB (Advanced), MySQL (Intermediate), MariaDB (Beginner).
- **Automation & Monitoring**: CI/CD Pipelines (Advanced), Infrastructure Monitoring (Advanced), Automation Scripting (Intermediate).

Soft Skills

- Problem-solving
- Analytical thinking
- Independent Learner
- Reliable Team Player
- Multitasking
- Adaptability
- Detail-oriented
- Collaboration

KEY ACHIEVEMENTS

- Spearheaded the ground-up rebuild of **PelniOne**, a critical HR application that was previously stalled and undocumented. Independently mastered Flutter and single-handedly engineered the entire backend architecture, leading the project from concept to a successful company-wide launch that remains a key system today.
- Awarded "**Developer of the Month**" (Q1 2025) for outstanding technical contributions and collaborative leadership. Recognized as the go-to expert for complex integrations and a dedicated mentor for junior developers, significantly enhancing team knowledge and reducing project blockers.
- Drove a **40% improvement in HR operational efficiency** through the PelniOne platform by automating core functions like attendance, e-office workflows, and employee self-service modules.
- Consistently exceeded performance targets across 13+ core business applications, achieving a **110% bug fix and change request resolution rate** which minimized system downtime and ensured business continuity.

PROFESSIONAL EXPERIENCE

Developer, PT PELNI (Persero)   **May 2022 - Present**

- Spearheaded the full-cycle redevelopment of **PelniOne**, PT PELNI's internal HR application, transforming it from a shelved concept into a fully deployed national platform. Independently learned and implemented **Flutter** while building over 25 secure, modular backend microservices using **Python**, **NestJS**, and **PHP** (**Lumen**), all without prior documentation or team support.
- Developed a robust backend ecosystem for real-time HR operations: employee attendance, e-office flows, digital assessments, e-signatures, payroll, and personal data modules. Authored complete **Swagger OpenAPI documentation** to streamline future integrations and handover.
- Engineered and managed **20+ Apache Airflow DAGs** for automating critical cross-system data flows across **HRIS**, **Oracle EBS Finance**, **MyCargoo**, **and third-party APIs**, cutting execution times by 25% and ensuring system reliability.
- Contributed to the launch of **Pelni Mobile**, PT PELNI's official passenger service app, by developing API layers and backend logic for seamless booking and user data handling.
- Led integration projects across systems like **Bitrix24**, **internal ERP**, and **banking services**, enabling clean, consistent, and automated data exchange between platforms.
- **Recognized as Developer of the Month** (Q1 2025) for high-impact delivery, exceptional knowledge-sharing, and being the first point of contact for cross-team troubleshooting, mentoring, and backend support.

IT Staff, PT Bank Central Asia Tbk   **Nov 2019 - Apr 2022**

- Supported the development and optimization of internal banking applications by enhancing system performance and refining logging mechanisms, resulting in a 30% increase in data reliability and faster incident resolutions.
- Contributed to the **LAKU** project using **Java Spring** and **React Native**, improving user experience and boosting customer engagement by 20%. Gained foundational experience in cross-platform mobile development and enterprise-grade backend systems.
- **Led UAT (User Acceptance Testing)** and **SIT (System Integration Testing)** processes for key banking systems, ensuring production readiness and reducing critical post-deployment issues by 25%.
- Maintained and improved internal systems such as **Axone**, focusing on performance tuning, monitoring, and long-term maintainability.

System Engineer & Technical Support, PT Access Mobile Indonesia   **Sep 2016 - Nov 2019**

- Maintained and monitored core IT infrastructure, achieving 100% uptime across critical systems while proactively implementing security and backup strategies.
- Automated server and transaction monitoring processes using **Shell Script, JavaScript**, and **Python**, reducing manual workload by 35% and improving operational reliability.
- Managed **MySQL** and **PostgreSQL** databases, provided transaction data for partners like **LINE**, **LINE POD**, and **UniPin**, and analyzed logs via **AWS CloudWatch** for performance tuning and troubleshooting.
- Built custom reporting tools using **JasperServer** and **JasperReports**, enabling automated delivery of business-critical reports.
- Supported system migration, performed hardware diagnostics and repairs, and delivered customer-facing technical support across multiple platforms.

IT Support Technician, PT Erdikha Elit Sekuritas   Sep 2013 - Sep 2016
- Provided all-round IT support in a high-availability financial services environment, ensuring stability of back-office systems and trading floor infrastructure.
- Troubleshot hardware, software, and LAN issues (using **MikroTik**) to reduce system downtime by 15% and improve daily operational flow.
- Managed routine **data backups** and recovery procedures, guaranteeing 100% data integrity and disaster readiness.
- Worked closely with third-party vendors to resolve critical incidents, minimizing business disruption.
- Handled physical infrastructure tasks including **crimping**, **device setup**, **cabling**, and **hardware repair**, ensuring swift resolution for end-user and network issues across departments.
- Supported administrative operations with 99% task accuracy, contributing to business continuity in a regulated finance sector.

EDUCATION

Bachelor of Computer Science (B.Comp. Sci)   Aug 2016 - Dec 2020
Mercu Buana University
- Major in Information Systems.
- **Relevant Coursework**: Database Systems, Algorithms and Data Structures, Web Enterprise Programming, Business Intelligence, PL/SQL Programming
- **GPA**: 3.75

CERTIFICATION

Certified Secure Computer User (CSCU)
EC-Council, 2018

Master Java Web Services: Restful API (JAX RS)
Udemy, 2020

Architecting on AWS (Membangun Arsitektur Cloud di AWS)
Dicoding Indonesia, 2021

Memulai Pemrograman Dengan Java
Dicoding Indonesia, 2021

Memulai Pemrograman Dengan Dart
Dicoding Indonesia, 2022

ADDITIONAL INFORMATION

Languages:
- Bahasa Indonesia (Native)
- English (Professional Working Proficiency)
- Deutsch B1 Level (Actively Pursuing B2)

Interests:
- Tech trends
- Backend architecture,Software
- Development and Automation
- Web Development Trends
- Public Interest Tech
- Digital Transformation
- Photography