

Felix Marsaptandhiyo

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Education

AMIKOM University - Bachelor's Degree

Sep, 2018 – Feb, 2022

- GPA: **3.67** (on a 4.0 scale)
- **Completed University-level Coursework:** Cisco Networking Fundamentals
- **Extracurricular Activities:** Member of Amikom Computer Club (AMCC) (2018 – 2019)
- **Notable Projects:**
 - **Water Level Detection System** – Developed an IoT-based water level monitoring system.
 - **Marketplace Website Prototype** – Designed and implemented a marketplace web prototype.
 - **Patient Complaint Web App** – Built a simple web app for patient-doctor communication.

Working Experiences

Software Engineer - Intermediate, PrivyID (PT Privy Identitas Digital)

Sep, 2022 – Jun 2025

- **Revamped the user registration application**, successfully handling ~3,000 daily registrations/updates across Android, iOS, and web platforms. Improved system stability and reduced downtime by over 90%, while enabling full user step-logging and audit-compliant data traceability.
Tech stack: Golang, Microservices, Redis, PostgreSQL, GCS
- **Helped fix critical issues in the Core User service**, optimized several inefficient database queries, and contributed to better gRPC service handling. These improvements enhanced system responsiveness and database performance.
Tech stack: Golang, Microservices, gRPC, PostgreSQL, GCS, Redis
- **Developed and launched the Merchant Dashboard** for log monitoring and credential setup, reducing manual integration effort by ~70% and significantly improving onboarding experience for B2B clients. Also implemented **Role-Based Access Control (RBAC)** to manage user permissions and ensure secure, scalable access control across merchant users.
Tech stack: Golang, Microservices, PostgreSQL, GCS
- **Extended OAuth2 infrastructure by integrating Two-Factor Authentication (2FA)** for high-security event flows, improving account protection and reducing risk of unauthorized access by up to 85%.
Tech stack: Ruby on Rails, MySQL, VueJS, Redis
- **Designed and implemented a modular 2FA system**, supporting OTP via SMS, WhatsApp, Email, as well as Face Verification, Biometric, and PIN. Enabled a flexible authentication pipeline, increasing user login success rates by ~30% and reducing related support tickets.
Tech stack: Golang, Microservices, Redis, Firestore, PostgreSQL, GCS
- **Integrated Face Verification and ID Verification**, including score mapping based on predefined thresholds to determine facial identity match accuracy with external data sources. Improved verification accuracy and reduced false acceptance rate by ~35%.
Tech stack: Golang, PostgreSQL, Firestore, GCS
- **Integrated OCR into document processing**, increasing data extraction accuracy by ~40% and decreasing manual verification time by ~60%.
Tech stack: Golang, GCS, PostgreSQL
- **Built OAuth2 authentication for iVoting event**, enabling secure login for Penyelenggara Sertifikat Elektronik (PSrE) participants, contributing to a secure digital election infrastructure.
Tech stack: Golang, PostgreSQL, Redis
- **Maintained and upgraded user profile services**, improving performance of user data updates and reducing latency of profile queries by ~50%.
Tech stack: Golang, Microservices, PostgreSQL, Redis, Firestore, GCS
- **Implemented system alerting with Datadog webhooks**, reducing incident response time by ~70% through real-time notifications sent to relevant ops channels.

Tech stack: Datadog

- **Created custom monitoring dashboards using Datadog**, increasing observability of core features and helping product/ops teams detect anomalies faster. Improved issue detection rate by ~45%.

Tech stack: Datadog

Software Engineer - Internship, PrivyID (PT Privy Identitas Digital)

Jul, 2022 – Sep, 2022

- **Mastered API testing with Postman**, ensuring efficient and effective endpoint validation.
- **Developed CRUD endpoints for a high-traffic application**, refining backend logic and database interactions to improve performance.
- **Expanded proficiency in Flutter & JavaScript**, implementing dynamic, interactive interfaces.
- **Built mock APIs**, simulating real-world data interactions to streamline development and testing.
- **Executed end-to-end testing using Cypress**, strengthening application reliability.
- **Optimized performance and debugging** with Google Developer Tools.
- **Advanced expertise in Go programming**, focusing on **scalability and efficiency** in backend development.
- **Collaborated in an agile team environment**, fostering strong communication and teamwork.

Extracurricular Activities or Leadership

- **Amikom Computer Club (AMCC)**: Participated in training sessions focused on web programming, gaining foundational skills and practical experience in web development.

Publications

- **Project Publication**: Available on [AMIKOM Eprints](#), showcasing contributions and findings in web development.

Additional Information

Technical Skills:

- **Programming Languages & Frameworks**: Golang (GoFiber, Gin, Gorilla Mux), PHP, Ruby on Rails
- **Databases & Storage**: MySQL, PostgreSQL, Firestore, Redis, NoSQL, Google Cloud Storage (GCS)
- **API & System Architecture**: RESTful APIs, gRPC, Microservices
- **Tools & Version Control**: Git, Postman, Jira, Notion, Figma (FigJam), Swimlane, diagrams.net, Docker
- **Monitoring & Observability**: Datadog (dashboard, alerts, webhooks), Graylog (log aggregation and analysis)
- **Cloud Platform**: Google Cloud Platform (GCP)

Languages:

- **Indonesian** – Native / Fluent
- **English** – Intermediate proficiency (reading, writing, and speaking)
- **Mandarin** – Basic proficiency

Professional Interests:

- **Passionate about backend development**, specializing in **data processing, scalable architectures, and high-performance computing**.
- **Dedicated to continuous learning**, staying at the forefront of cutting-edge technologies in software engineering.