

# AKMAL SYARIFUDDIN

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Jakarta, Indonesia

Software Engineer with 5 years of professional experience, specializing in backend systems and scalable APIs. Strong in Go, Node.js/TypeScript/Bun, and Python, with solid full-stack exposure across React/Next.js, Vue.js, and React Native. Comfortable owning delivery end-to-end — from architecture and data modeling to testing and cloud deployment — and quick to adopt new stacks when the problem demands it.

## Work Experiences

**PT Djarum (KOMPIT App - Bakti Olahraga)** - Jakarta, Indonesia Dec 2024 - Present  
*Senior Backend Engineer*

- Responsible for backend development for Kompit App, implementing scalable architecture using Go, Gin, PostgreSQL, Firestore, OpenSearch, Open API, Redis, WebSocket, and AWS services (Lambda, SQS, S3, SNS), improving system performance and reliability
- Establish comprehensive testing practices with unit and integration tests, contributing to 90%+ code coverage and significantly reducing production bugs
- Drive end-to-end project delivery from requirements analysis to deployment, collaborating with cross-functional teams to ship high-quality software on time
- Promoted to Senior Backend Engineer (Oct 2025); contributed to platforms powering national-scale sporting events

**PT Dunia Digital Terdepan (Good Games Guild)** - Jakarta, Indonesia Dec 2023 - Dec 2024  
*Backend Developer*

- Architected and developed backend microservices for GGPlay (Web & Mobile), handling high-traffic workloads with Node.js (TypeScript), Go, MongoDB, Redis, BullMQ, MQTT, Firebase, Supabase, and Midtrans — improving system scalability by ~40%
- Assisted Web3 integration by implementing blockchain features using Solidity, Hardhat, and Web3.js, expanding platform capabilities
- Streamlined development processes by implementing an error notification system, improving team productivity

**Ministry of Public Works and Housing - Kementerian PUPR RI - Outsource from PT MSBU** - Jakarta, Indonesia Mar 2024 - Aug 2024  
*Backend Developer*

- Developed and optimized backend systems for eHRM PUPR (Node.js/TypeScript, Nest.js, MySQL, Redis), improving system response time by ~35%
- Collaborated with System Analysts to define technical requirements and infrastructure specifications, aligning business needs with technical implementation

**PT Tema Data Rekayasa Digital** - Bekasi, Indonesia Mar 2023 - May 2023  
*Freelance Software Developer*

- Delivered full-stack web solutions using React and TypeScript with responsive design and modern UI/UX patterns
- Built cross-platform mobile apps with React Native for consistent iOS and Android performance
- Developed RESTful APIs using Gin & GORM (Go) and Express & Sequelize (Node.js) with focus on security, performance, and maintainability

**PT ITOMMEY Bintang Indonesia** - Jakarta, Indonesia Aug 2022 - Feb 2024  
*Fullstack Developer*

- Enhanced and maintained critical business apps for Apotek & PBF Online Medis and Getkons Freelancer (React.js), shipping features that improved UX and operational efficiency
- Designed microservices for auth, payment, document, and notification/email services (Node.js, Express.js, gRPC, PostgreSQL, MongoDB, Redis, RabbitMQ, OAuth), improving reliability and reducing maintenance overhead
- Optimized database queries and caching strategies, achieving ~25% improvement in application response times

**Merah Putih Academy** - Jakarta, Indonesia Mar 2022 - Jul 2022  
*Backend Developer*

- Developed RESTful APIs for educational platforms including Psikotest service (Node.js & Laravel) and Turu.id booking service (Laravel) with secure authentication workflows
- Automated data collection using Puppeteer and Cheerio, reducing manual data entry time by ~70% and improving data accuracy

## Selected Projects & Open Source

### go-firestore-mock

Maintainer

- Unofficial Go library providing mock implementations and wrapper interfaces for Google Cloud Firestore — enables unit testing without hitting real Firestore

### duolingo-readme

Maintainer

- GitHub Action/tooling to add Duolingo streak, XP, league rank, and languages graph to profile READMEs

### DBeaver / Casbin / Nakama / FinceptTerminal / webbrain / BloxBot AI

Contributor

- Contributed to open-source projects spanning database tooling (DBeaver, Java), authorization (Apache Casbin, Go), AI agents (Nakama, webbrain), finance desktop apps (FinceptTerminal), and AI game tooling (BloxBot AI)

### spineldb / asyncapi-codegen / rendercv

Maintainer / Contributor

- Maintainer of lightweight embedded Rust database engine (spineldb) and AsyncAPI code generator; contributed improvements to Typst-based CV generator (rendercv)

## Education Level

|                                                                       |                     |
|-----------------------------------------------------------------------|---------------------|
| <b>Universitas Terbuka</b> - Jakarta, Indonesia                       | Jul 2023 - Jul 2027 |
| <i>Bachelor of Information System, 3.36/4.00</i>                      |                     |
| <b>Golden English</b> - Jakarta, Indonesia                            | Sep 2024 - Oct 2024 |
| <i>Certificate in IELTS Camp Simulated Test Competency, 6.00/9.00</i> |                     |
| <b>Dumbways Indonesia Teknologi Bootcamp</b> - Tangerang, Indonesia   | Nov 2021 - Jan 2022 |
| <i>Certificate in Fullstack Javascript Developer, 95.00/100.00</i>    |                     |
| <b>SMAN 1 Cibarusah</b> - Bekasi, Indonesia                           | Apr 2017 - Apr 2020 |
| <i>High School Math and Science, 92.01/100.00</i>                     |                     |

## Skills, Achievements & Other Experience

- **Languages** 🌐 Go, TypeScript, JavaScript, Node.js, Bun, Python, C# / .NET, Java, PHP, SQL, Google Apps Script
- **Frameworks** 🌐 Gin, Fiber, Express.js, Nest.js, ASP.NET Core, EF Core, React, Next.js, Vue.js, Nuxt.js, Astro, React Native, FastAPI, Spring Boot, Laravel
- **Databases** 🌐 PostgreSQL, MongoDB, MySQL, ElasticSearch, OpenSearch, Redis, Firestore
- **Messaging & Cloud** 🌐 RabbitMQ, BullMQ, Kafka, MQTT, AWS (Lambda, SQS, SNS, S3), GCP, Firebase, Supabase; Docker, Kubernetes, Terraform, GitLab CI/CD, GitHub Actions
- **Soft Skills** 🌐 Problem Solving, Team Collaboration, Communication, Fast Learning, Documentation, AI Utilization; Languages: Indonesian (native), English (EF SET C1, IELTS 6.0), Japanese (basic)
- **Achievements** 🌐 (2025): Speaker at Data Mining Course Webinar - Pelita Bangsa University (Naive Bayes & real-world applications)
- **Achievements** 🌐 (2024): Speaker at Cryptography Course Webinar - Pelita Bangsa University
- **Hard Skills** 🌐 (2023): Structured Query Language (SQL) - Dicoding
- **Hard Skills** 🌐 (2022): Fullstack Javascript Developer - Dumbways Indonesia Teknologi Bootcamp
- **Hard Skills** 🌐 (2023): Architecting on AWS (Membangun Arsitektur Cloud di AWS) - Dicoding
- **Hard Skills** 🌐 (2023): Machine Learning Essentials - Dicoding
- **Hard Skills** 🌐 (2023): IOT ESP32 Engineering - Edspert.id
- **Hard Skills** 🌐 (2023): Golang Developer - Build With Angga
- **Hard Skills** 🌐 (2020): Python Essentials - Dicoding
- **Hard Skills** 🌐 (2023): Computer Networking Essentials - Dicoding
- **Hard Skills** 🌐 (2024): IELTS Simulated Test Competency - Golden English
- **Hard Skills** 🌐 (2023): EF SET English Proficiency Certificate - C1
- **Hard Skills** 🌐 (2023): DevOps Essentials - Dicoding

## Organisational Experience

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|--------------------------------|--------------------|
| <b>SEFEO English Community</b> | Nov 2024 - Present |
| <i>Host and Active Member</i>  |                    |

