

Muchamad Coirul Anwar

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SUMMARY

Software Engineer with **2+ years of experience** specializing in **backend optimization** and **high-concurrency microservices**. Proven track record of **scaling application throughput by 3x** and architecting **fault-tolerant systems** in the banking sector. Adept at leveraging **AI agent orchestration** (via **MCP** and **custom hooks**) to **accelerate development workflows**, with a strong passion for delivering robust **enterprise solutions (Go)** and exploring **low-level systems architecture (Rust)**.

EXPERIENCE

Back-End Developer | Bank Rakyat Indonesia (BRI)

Nov 2025 - Present

- **Architected and executed the migration of 4 core BRI API services**, defining the system architecture for full migrations while ensuring backward compatibility for legacy endpoints.
- **Developed and maintained 6 Brigade API Gateway services**, managing both new feature implementations and the continuation of existing legacy systems.
- **Accelerated development cycles by 57%** by effectively integrating AI developer agents into the engineering workflow, without compromising code quality.
- **Optimized high-concurrency systems** by implementing Go's singleflight pattern to prevent cache stampedes, and integrated **Fluentd** to enhance centralized logging and observability.

Full-Stack Developer | MitraPlus Infotek TotalSolusi

Dec 2023 – Nov 2025

- **Migrated** the backend runtime from Node.js to **Bun**, increasing application throughput by **3x** and reducing CPU usage by **50%**.
- **Architected** a standardized GitHub Actions CI/CD pipeline for 10+ applications, tripling deployment frequency with a **97% success rate** across 5 environments.
- **Deployed** a comprehensive observability stack (**Prometheus, Grafana, Loki**), reducing the Mean Time to Detect (MTTD) for production errors by **50%**.

PROJECTS

Rust-for-Linux Contributor | IIO Subsystem

<https://lore.kernel.org/linux-iio/20260524132824.54918-1-muchamadcoirulanwar@gmail.com>

- **Actively contributing to the Linux Kernel mailing list** (currently iterating on RFC v3) to implement Rust bindings for the Industrial I/O (IIO) subsystem.
- **Collaborating directly with upstream kernel maintainers**, actively refining patch sets to address memory safety, C-FFI constraints, and architectural feedback.

EDUCATION

Open University of Indonesia | B.S. in Information Systems

Sep 2024 – Jun 2028

SMKN 26 Jakarta | Electrical Engineering

Jul 2016 – Jun 2020

SKILLS

- **Programming Languages:** Rust (Axum, no_std), Go (Gin, Fiber), SQL, Node.js (Bun), TypeScript (React, Svelte), x86 Assembly.
- **Backend & Systems:** Microservices Architecture, gRPC, Event-Driven Architecture, RESTful APIs, Software AG webMethods ESB, RabbitMQ.
- **Infrastructure & Cloud:** Kubernetes (HPA), Docker, Amazon Web Services (AWS EC2, Lambda, S3), CI/CD (GitHub Actions), GitOps, Prometheus, Grafana, Fluentd.
- **Databases & Performance:** PostgreSQL, Redis, MongoDB, Load Testing (k6).
- **Languages:** English (Limited Working Proficiency), Indonesian (Native).

ACHIEVEMENT

Gold Medal of National Vocational Skills Competition (Industrial Control)

May 2018

- Designed and implemented automated industrial workflows using PLC programming and ladder diagrams.

VOLUNTEER

Program Development | Asa Insan Muda Foundation

Feb – May 2021

- Planned and executed community outreach programs, coordinated 5+ volunteers and managed logistics for 200+ aid packages during COVID-19 relief efforts.