Khairil Rahman Hakiki

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EDUCATION

State Islamic University of Imam Bonjol Padang — Padang, Indonesia
Bachelor of Information Systems – Available: Immediate for Internship; Nov. 2026 for Full-time — Aug. 2022 – Present

EXPERIENCE

Software Engineer — Sep. 2025 – Dec. 2025
TIME Language Centre — *Padang, Indonesia*
- Architected **polyglot microservices** with **Go/TypeScript** using **Clean Architecture** and **DDD**, enabling independent scaling and deployment of each service for the ed-tech platform.
- Implemented **event-driven architecture** with **RabbitMQ** and **Redis** caching to handle high-throughput user interactions and course enrollment processing.
- Designed **distributed transactions** with **Xendit** payment gateway ensuring data consistency between payment and user entitlements across microservices.
- Orchestrated **Docker/Kubernetes** deployments with **CI/CD** and **Prometheus/Grafana** for observability.

Junior Frontend Developer — Apr. 2025 – Dec. 2025
CodeAtHome — *Lampung, Indonesia*
- Developed features and resolved bugs in **React.js/Next.js** applications following clean code practices with regular code reviews for quality assurance.
- Created **reusable component library** with **Tailwind CSS/Shadcn UI** for consistent UI across projects.
- Optimized **state management** with **TanStack Query** and **Redux** for better app performance.

Software Engineer Intern — Jan. 2025 – Mar. 2025
PT Astra International Tbk - TSO Auto2000 — *Labuhanbatu, Indonesia*
- Developed **Toyota dealership website** with **Next.js/Google Sheets API** for easy content management and **AI-powered** car recommendations based on user preferences.
- Built **Python ETL pipeline** to clean 15 years of legacy data, transforming raw records into structured analytics-ready format for reporting.
- Developed **ReminderApp** for STNK/BPKB renewals with **RBAC** and automated notifications.

PROJECTS

Personal Website | *Next.js, MDX, Bun, Elysia, Generative AI* — Live
- Built high-performance portfolio with custom **MDX** blog engine achieving **99+ Lighthouse score**.
- Created **Guestbook** service with **Bun/Elysia**; integrated **Generative AI** chatbot for portfolio exploration

Fluently | *React Native, Expo, Next.js, Gemini AI, Redis, PostgreSQL* — Live
- Launched cross-platform language learning app with **AI Speaking Coach** for real-time pronunciation feedback.
- Designed **gamification system** with XP, streaks, and leaderboards using **Redis**-backed task engine.

Slither | *Go, Redis, WebSocket, Three.js, Real-Time Multiplayer* — GitHub
- Implemented **delta state compression** achieving >**95% bandwidth reduction** with **client-side prediction** for smooth 60 FPS gameplay.
- Built **authoritative server** architecture with **spatial hash grid** collision detection handling thousands of entities at **30Hz tick rate**.

SyncBlog | *Next.js, Express.js, PostgreSQL, Prisma, Cloudinary* — Live
- Built full-stack blog with **MDX editor**, social features (follow, like, bookmark), and **Cloudinary** CDN.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Go (Golang), Python, SQL
Frontend: React.js, Next.js, React Native, Expo, Redux, Zustand, TanStack Query, Tailwind CSS, Shadcn UI
Backend: Node.js, Express.js, GoFiber, RESTful APIs, Microservices, RabbitMQ, WebSocket, OAuth 2.0, JWT
Databases: PostgreSQL, Redis, MySQL, Prisma, TypeORM, GORM, Firebase, Supabase
DevOps: Docker, Kubernetes, CI/CD, GitHub Actions, Prometheus, Grafana, NGINX, Vercel, Agile/Scrum

CERTIFICATIONS

OCI 2025 AI Foundations (Oracle) | AWS Cloud & Gen AI (Dicoding) | REST API Intermediate (HackerRank)