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*
- Owned end-to-end development of **microservices** in **Go/TypeScript** with **Clean Architecture**, deployed on **Kubernetes** achieving **zero-downtime releases**.
- Implemented **Redis** caching and rate limiting, reducing API response time by **40%** and handling **1000+ requests/min**.
- Engineered async payment flow using **RabbitMQ + Xendit**, ensuring reliable transactions without blocking user requests.
- Established **observability stack** (**Prometheus**, **Grafana**, **Loki**) enabling real-time debugging and proactive incident response in production.

Junior Frontend Developer   Apr. 2025 – Dec. 2025
CodeAtHome   *Lampung, Indonesia*
- Delivered features and resolved bugs in production **React.js/Next.js** apps, ensuring code stability.
- Standardized UI with **Shadcn UI** component library, accelerating development by ∼**40%**.
- Slashed page load time by **50%** using **TanStack Query** with optimistic updates.

Software Engineer Intern   Jan. 2025 – Mar. 2025
PT Astra International Tbk - TSO Auto2000   *Labuhanbatu, Indonesia*
- Developed **Toyota dealership website** with **Next.js + AI recommendations**, achieving **95+** Core Web Vitals score for optimal UX.
- Automated legacy data cleanup with **Python ETL**, transforming raw records into analytics-ready format and reducing processing time by **90%**.
- Constructed **ReminderApp** with **RBAC** and auto-notifications, effectively mitigating missed STNK/BPKB renewals.

PROJECTS

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

Fluently | *React Native, Expo, Next.js, Gemini AI, Redis, PostgreSQL*   Live
- Launched cross-platform 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 compression** and **client-side prediction** achieving **95% bandwidth reduction** at 60 FPS.
- Architected **authoritative server** with **spatial hash grid** collision handling 1000+ entities at **30Hz tick rate**.

SyncBlog | *Next.js, Express.js, PostgreSQL, Prisma, Cloudinary*   Live
- Spearheaded full-stack blog with **MDX**, **PostgreSQL**, **Prisma**, and **Cloudinary**, streamlining content delivery.

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, gRPC
Databases: PostgreSQL, Redis, MySQL, Prisma, TypeORM, GORM, Firebase, Supabase
DevOps/Observability: Docker, Kubernetes, CI/CD, GitHub Actions, Prometheus, Grafana, Loki, NGINX

CERTIFICATIONS

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