

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

- Led technical strategy for a **multi-team client initiative**, architecting a **distributed microservices system** (Go/RabbitMQ) for the customer-facing platform while guiding a separate monolith team for internal tools, aligning architecture with business complexity.
- Standardized engineering best practices across **3 development teams**, enforcing **Git workflows, CI/CD pipelines, and security protocols**, while conducting code reviews that upskilled peers and ensured production readiness.
- Architected an event-driven **microservices platform** (Go/TypeScript) on **K3s** using **RabbitMQ** and **database-per-service** pattern, ensuring data isolation and independent scaling.
- Engineered a unified **entitlement & payment engine** in **Go**, utilizing **Redis** for caching which reduced authorization latency by **65%** and secured transaction integrity.
- Established system observability using **Prometheus, Grafana, and Loki**, enabling real-time distributed monitoring and rapid issue detection.

Junior Frontend Developer

Apr. 2025 – Dec. 2025

CodeAtHome

Lampung, Indonesia

- Shipped features with **unit/integration testing**, enforcing **clean code** and stability.
- Architected reusable **React/TypeScript** component libraries, ensuring design consistency and faster delivery.
- Optimized global state management with **Redux/TanStack Query**, cutting API load by **40%** via caching.

Software Engineer Intern

Jan. 2025 – Mar. 2025

PT Astra International Tbk - TSO Auto2000

Labuhanbatu, Indonesia

- Engineered **Next.js** dealership platform with **AI-car recommendations**, achieving **97+ Core Web Vitals** and increasing user engagement.
- Developed **Reminder App** for STNK/BPKB collection, ensuring timely document pickups and improving administrative efficiency.
- Automated **14 years of data (2010–2024)** cleanup via **Python ETL**, reducing time by **98%**.

PROJECTS

Personal Website | *Next.js, MDX, Bun, Elysia, Generative AI*

[Live](#)

- Crafted high-performance portfolio with custom **MDX** blog engine achieving **98+ 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](#)

- Engineered a **real-time multiplayer 3D snake game**, achieving **95% bandwidth reduction** via **delta compression** and prediction algorithms.
- Architected **authoritative server** with **spatial hash grid** collision handling for **1000+ concurrent entities**.

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/Cloud: AWS (EC2, S3, RDS, Lambda), Docker, Kubernetes, CI/CD, GitHub Actions, Prometheus, Grafana, Loki

CERTIFICATIONS

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