

# Khairil Rahman Hakiki

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## EDUCATION

### State Islamic University of Imam Bonjol Padang

Padang, Indonesia

Bachelor of Science in Information Systems – Expected Graduation: Nov. 2026

Aug. 2022 – Present

- Relevant Coursework: Data Structures & Algorithms, Database Systems, OOP, Software Engineering

## EXPERIENCE

### Software Engineer

Sep. 2025 – Jan. 2026

TIME Language Centre

Padang, Indonesia

- Led technical strategy for **2 core systems**: a **Mini-ERP** for internal operations and a **Microservices-based Online Course** platform, standardizing **Git workflows** and **CI/CD** across 3 teams.
- Architected **Polyglot microservices** (Go, TypeScript) for the course platform on **K3s** with **RabbitMQ**, **horizontal scaling**, and **Redis caching**.
- Implemented observability stack using **Prometheus**, **Grafana**, and **Loki** for real-time monitoring.

### Frontend Developer

Apr. 2025 – Des. 2025

CodeAtHome

Lampung, Indonesia

- Implemented new features, resolved bugs, and maintained **clean code practices** through regular **code reviews**.
- Engineered reusable **React components and UI** with **TypeScript** and **Redux** state management, accelerating feature development.
- Optimized data fetching with **TanStack Query** caching strategies, reducing API calls by **40%** and improving load times.

### Software Engineer Intern

Jan. 2025 – Mar. 2025

PT Astra International Tbk - TSO Auto2000

Labuhanbatu, Indonesia

- Spearheaded **Next.js** dealership platform with **AI-powered car recommendations** using **Gemini AI** to improve customer experience.
- Developed customer reminder system for STNK/BPKB documents, streamlining administrative workflows.
- Engineered **Python ETL pipeline** processing **legacy data** (2010–2024), reducing processing time by **98%**.

## PROJECTS

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

Live

- Developed 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 **language learning app** with **AI speaking coach**, daily routines, and smart articles.
- Implemented **gamification features** (XP, daily streaks, leaderboards) with **Redis** to drive user retention.

### Slither | Go, Redis, WebSocket, Three.js

GitHub

- Built real-time game server in Go, utilizing **Redis Pub/Sub** for cross-instance state synchronization and **O(1) Spatial Hashing** to handle collision for **10,000+** entities.
- Achieved **>95% bandwidth efficiency** via delta state compression and ensured **60 FPS** consistency through **Client-Side Prediction** (Dead Reckoning), optimized for high-latency environments.

## TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript, Go (Golang), Python, SQL

**Frontend:** React.js, Next.js, React Native, Expo, Redux, Zustand, TanStack Query, Tailwind CSS, Shaden UI

**Backend:** Node.js, Express.js, GoFiber, RESTful APIs, Microservices, RabbitMQ, WebSocket, gRPC

**Databases:** PostgreSQL, Redis, MySQL, GORM, Prisma, TypeORM, Firebase, Supabase

**DevOps/Cloud:** AWS, Docker, Kubernetes, CI/CD, GitHub Actions, Prometheus, Grafana

## CERTIFICATIONS

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