

Khairil Rahman Hakiki

Padang, Indonesia | +6282274360915 | [khairol.4hrp@gmail.com](mailto:khairil.4hrp@gmail.com) | linkedin.com/in/khairilrahman | github.com/kyyril | kyyril.vercel.app

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, Security

EXPERIENCE

Software Engineer (Project-Based)

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**, **CI/CD**, and **code reviews** across 3 teams.
- Architected **polyglot microservices** (Go, TypeScript) following **Clean Architecture** and **Event-Driven Design**, deployed on **K3s** for **horizontal scaling**, utilizing **RabbitMQ** and **Redis**.
- Implemented observability stack using **Prometheus**, **Grafana**, and **Loki** for real-time monitoring.
- Enforced system reliability by implementing comprehensive **Unit Testing** using **Go Test** and **Jest**.

Frontend Developer

Apr. 2025 – Dec. 2025

CodeAtHome

Lampung, Indonesia

- Delivered features and enhanced codebase stability by enforcing **clean code standards** through **code reviews**.
- Engineered reusable **React components** with **TypeScript** and **Redux**, accelerating feature development.
- Optimized data fetching with **TanStack Query**, reducing API calls by **40%** via advanced caching.

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 **automated Python-based** 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**, optimized for high-latency environments.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Go, Python, SQL

Frontend: React, 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, GORM, Prisma, TypeORM, Firebase, Supabase

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

CERTIFICATIONS

Oracle Cloud Infrastructure (OCI) 2025 AI Foundations (Oracle) | AWS Cloud & Gen AI (Dicoding)