Khairil Rahman Hakiki

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EDUCATION

State Islamic University of Imam Bonjol Padang   Padang, Indonesia
Bachelor of Information Systems   *Aug. 2022 – Expected Nov. 2026*
- **Current Status:** Final Year Student – All coursework completed, currently in final thesis phase.
- **Availability:** Immediate – Oct. 2026 for Full-time Internship; Nov. 2026 onwards for New Grad Roles.
- **Relevant Coursework:** Data Structures & Algorithms, Software Engineering, Statistics, Operating System, Network, Security, Project Management, Technopreneurship, Databases, and UI/UX Design.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Go (Golang)
Frontend: React.js, Next.js, Vite, Redux Toolkit, Zustand, TanStack, React Native, Expo, Tailwind CSS, Shadcn UI
Backend: Node.js, Express.js, GoFiber, RESTful APIs, Microservices, RabbitMQ, OAuth 2.0, JWT
Database & ORM: PostgreSQL, Redis, MySQL, Prisma, TypeORM, GORM, Firebase, Supabase
DevOps & Tools: Docker, Kubernetes, Prometheus, Grafana, NGINX, GitHub Actions, Vercel, Cloudflare, Figma, Postman

EXPERIENCE

Software Engineer   Sep. 2025 – Dec. 2025
TIME Language Centre   *Padang, Indonesia*
- Engineered a resilient **Microservices** architecture to resolve monolithic scalability issues, implementing **Domain-Driven Design (DDD)** to ensure long-term maintainability.
- Integratred **RabbitMQ** for asynchronous event processing and **Redis** for caching strategy, significantly optimizing system responsiveness and reducing API latency.
- Designed robust transaction handling mechanisms with **Xendit** payment gateway to ensure strict data consistency between payment status and user entitlements.
- Orchestrated containerized deployments using **Docker** and **Kubernetes** with **Prometheus** and **Grafana** monitoring to ensure high availability and observability.
- Enforced rigorous system reliability and security through comprehensive **Unit Testing (Go-Test/Jest)** and **OAuth 2.0/JWT** authentication standards.

Junior Frontend Developer   Apr. 2025 – Dec. 2025
CodeAtHome   *Lampung, Indonesia*
- Developed new features and resolved bugs for web applications using **React.js** and **Next.js**, refining code quality through regular code reviews and adherence to clean code standards.
- Standardized frontend development workflows by implementing reusable component libraries with **Tailwind CSS** and **Shadcn UI**, accelerating feature delivery time.
- Enhanced application performance and state management efficiency using **TanStack Query** and **Redux**, resulting in a smoother user experience.

Software Engineer Intern   Jan. 2025 – Mar. 2025
PT Astra International Tbk - TSO Auto2000   *Labuhanbatu, Indonesia*
- Developed the official branch website for **Toyota Labuhanbatu** using **Next.js**, featuring dynamic content management via **Google Sheets API**, a vehicle catalog with credit simulation, and an **AI-powered car recommendation** system to enhance customer decision-making.
- Solved large-scale data quality issues by building an automated **Python** script to clean, transform, and standardize thousands of raw records into structured, analysis-ready datasets across multiple years (2010–2024).
- Developed 'ReminderApp', a critical internal tool for managing vehicle document renewals (STNK/BPKB), featuring role-based access control (RBAC) and automated notifications.

PROJECTS

Personal Website | *Fullstack Portfolio*
- Engineered a high-performance personal platform using **Next.js**, featuring a custom **MDX**-based blog engine.
- Developed a low-latency interactive **Guestbook** service using **Bun** and **Elysia**, optimizing for rapid request handling.
- Integrated **Generative AI** to provide a context-aware conversational assistant for portfolio exploration.

Fluently | *AI-Powered Language Learning Platform*
- Engineered a cross-platform language learning application using **React Native (Expo)** and **Next.js**, featuring an **AI Speaking Coach** powered by **Gemini AI** for real-time conversation practice.
- Implemented a complex **gamification system** with XP, streaks, and global leaderboards to drive user retention, supported by a high-performance **Redis**-backed daily task engine.
- Developed **Smart Articles** module integrating external **Open-Source Dictionary APIs** to enable word-level interactions and instant translations, utilizing **Express.js** and **PostgreSQL** for content persistence.

Neon Slither | *Real-Time Multiplayer Game*
- Architected a high-performance multiplayer snake game using **Go**, **Redis**, and **WebSocket**, implementing **delta state compression** for **>95% bandwidth reduction** in real-time sync.
- Engineered **client-side prediction** and **spatial hash grid** collision detection ($O(n)$ vs $O(n^2)$), enabling 10,000+ entities and smooth 60 FPS gameplay at 200ms+ latency.

SyncBlog | *Full Stack Blog Platform*
- Designed a scalable blogging architecture with a **Next.js** frontend and **Express.js** backend, ensuring clean separation of concerns.
- Implemented secure **OAuth** & **JWT** authentication flows and real-time social features like comments and follows.
- Optimized frontend performance with **TanStack Query** for efficient data caching and **Redux** for complex state management.

Hadith API | *High-Performance REST API*
- Developed a high-throughput REST API in **Go (Gin)** tailored for querying massive religious datasets with sub-millisecond latency.
- Implemented optimized indexing strategies and efficient search algorithms to handle complex multi-parameter queries.
- Authored comprehensive **OpenAPI/Swagger** documentation to ensure seamless third-party developer integration.

SaaS NoteApp | *Subscription Management System*
- Built a secure, multi-tenant SaaS application integrating **Stripe** for sophisticated subscription billing lifecycles.
- Secured user sessions with **Kinde Auth** and enforced strict data isolation policies using **Supabase** RLS.
- Utilized **Prisma** with **PostgreSQL** for reliable data modeling and management.

Design To Code | *AI-Powered Frontend Generator*
- Architected an AI-driven development tool leveraging **Generative AI** to transform UI mockups into production-ready **React** code.
- Built a scalable processing pipeline with **Next.js** and **Shadcn UI**, enabling customizable model selection.
- Implemented robust state management and persistence using **PostgreSQL**, **Prisma**, and **Cloudinary** for asset storage.

CERTIFICATIONS

- Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate – Oracle
- Frontend Developer (React) – HackerRank
- Responsive Web Design – freeCodeCamp
- REST API (Intermediate) – HackerRank
- JavaScript (Intermediate) – HackerRank
- Go (Basic) – HackerRank