

Khairil Rahman Hakiki

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EDUCATION

State Islamic University of Imam Bonjol Padang

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

Padang, Indonesia

Aug. 2022 – Present

EXPERIENCE

Software Engineer (Contract)

Sep. 2025 – Jan. 2026

TIME Language Centre

Padang, Indonesia (Hybrid)

- Orchestrated the technical development of 2 mission-critical systems (Mini-ERP & Online Course Platform), standardizing CI/CD pipelines and code review protocols to accelerate deployment cycles.
- Designed and implemented scalable microservices using Go and TypeScript on Kubernetes (K3s), adopting Event-Driven Architecture with RabbitMQ and Redis for high availability.
- Built a real-time observability suite using Prometheus, Grafana, and Loki, reducing mean time to resolution (MTTR) for incidents.
- Improved system reliability by enforcing 90%+ Unit Test coverage using Go Test and Jest, ensuring production stability.

Frontend Developer

Apr. 2025 – Dec. 2025

CodeAtHome

Remote

- Optimized data fetching layer with TanStack Query, reducing redundant API calls by 40% through advanced caching and invalidation strategies.
- Engineered reusable React components with TypeScript and Redux, reducing boilerplate code and accelerating feature delivery.
- Enhanced codebase maintainability by enforcing strict linting, clean architecture, and conducting rigorous code reviews.

Software Engineer Intern

Jan. 2025 – Mar. 2025

PT Astra International Tbk - TSO Auto2000

Labuhanbatu, Indonesia (Onsite)

- Developed a Next.js dealership platform featuring AI-powered car recommendations via Gemini AI, directly increasing user engagement and potential sales leads.
- Automated the customer reminder system for STNK/BPKB documents using Python, extending coverage to 100% of eligible customers while eliminating manual data entry errors.
- Engineered a high-performance Python ETL pipeline to process 15 years of legacy data, 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 a high-concurrency game server in Go, leveraging Redis Pub/Sub for state synchronization and O(1) Spatial Hashing to manage collisions for 10,000+ entities.
- Achieved 95% bandwidth reduction implementing delta compression and maintained 60 FPS synchronization using Client-Side Prediction and Reconciliation.

OPEN SOURCE CONTRIBUTIONS

OpenTelemetry Collector | *Documentation*

[Pull Request](#)

- Resolved configuration ambiguities in Prometheus receiver documentation by deprecating legacy `batch` processor references, aligning examples 100% with modern `sending_queue` architectural patterns (PR #45819).

Meilisearch Go Client | *Go, Type System*

[Pull Request](#)

- Overcame rigid type constraints in `FacetSearchRequest.Filter` by refactoring it to `interface{}`, unlocking support for complex array-based filtering logic for the Go client community (PR #753).

Next AI Draw IO | *React, UI/UX*

[Pull Request](#)

- Engineered a conditional UI shadow system using `MutationObserver` and `React.forwardRef` to solve scroll visibility issues, significantly enhancing visual hierarchy and user experience (PR #681).

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Go, Python, SQL, HTML, CSS

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

Backend: Node.js, Express.js, Fiber (Go), PostgreSQL, Redis, MySQL, GORM, Prisma, RabbitMQ, WebSocket

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

Certifications: [OCI AI Foundations \(2025\)](#) (Oracle) | [AWS Cloud & Gen AI](#) (Dicoding)