

Rhenald Karrel

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Software Engineer

Fullstack Software Engineer with 3+ years of experience building enterprise financial platforms using React, Next.js, TypeScript, Go, and PostgreSQL. Experienced in developing transaction and approval workflows, multi-tenant ERP financial modules, REST/gRPC integrations, and log-based issue investigation across microservices.

WORK EXPERIENCE

PT TEMAS Tbk

Jakarta • 09/2025 - 05/2026

Software Engineer • Contractor

- Delivered clean fullstack features for KlikTemas Beyond, a multi-tenant ERP platform, managing workflows across invoicing, payments, accounting, settlement, journal, and closing periods
- Developed REST APIs and Go service layers adhering to SOLID principles and Clean Architecture, enforcing strict separation of concerns across repository, usecase, and DTO layers
- Designed and implemented per-account settlement features across Go backend and frontend UI, managing complex COA configurations, automated calculations, and secure state transitions to ensure financial data integrity
- Built journal outbox modules in Pocket and Invoice services to persist failed posting events, preventing financial data loss and enabling seamless manual retries via UI/API
- Implemented tenant/product-specific PDF generation using registry and strategy patterns to dynamically support diverse layouts, templates, and data retrieval configurations
- Integrated daily per-tenant settlement postings by integrating core financial logic into the background job infrastructure, ensuring reliable data sync to Infor ERP via forwarding services
- Wrote comprehensive Go unit tests using Mockery, covering core logic, edge cases, and GORM transaction flows; achieved 90-100% coverage per feature to minimize production regressions
- Contributed to internal frontend component standards by enhancing reusable form components and preserving backward compatibility across consuming applications
- Utilized SigNoz for application log tracing to proactively identify and resolve production bugs, ensuring seamless user experience and system reliability

PT Satkomindo Mediyasa

Jakarta • 05/2023 - 08/2025

Full-Stack Web Developer • Contractor

- Collaborated with product owners, developers, QAs, and cross-functional teams to deliver Qlola Cash Management, a fintech platform for Bank Rakyat Indonesia
- Developed core Account Receivable frontend modules from scratch, covering secure transaction approvals, mandate management, transaction management, and report generation
- Built responsive, pixel-perfect React/Next.js components from Figma using Tailwind CSS; contributed reusable components to the shared UI library to accelerate team workflows
- Integrated backend-defined RBAC permissions into React UI, dynamically composing conditional components based on role data for secure, compliant access control
- Migrated Account Receivable and Mass Transfer modules to a micro-frontend architecture using Webpack Module Federation, significantly boosting Lighthouse performance and accessibility scores
- Contributed to the Go Mass Transfer service, developing non-transactional features and bugfixes to ensure system stability and seamless API integrations
- Refactored service logging to conform to existing EFK stack (Elasticsearch, Fluent Bit, Kibana), standardizing observability across the service

- Served as a formal frontend code reviewer across squads, reviewing code style, reusable components, and bug risks, with approval authority for dev and prerelease merges.
- Traced microservices logs via OpenShift to isolate root causes, resolving integration bottlenecks across environments to ensure seamless workflows

Kementerian Pendidikan dan Kebudayaan

Jakarta • 07/2023 - 01/2024

Front-End Web Developer • Freelancer

- Designed and implemented the Mitreka dashboard frontend using Next.js, delivering a seamless user experience
- Conducted UI/UX analysis to identify enhancement opportunities and ensure user-centric design
- Integrated APIs into dashboard pages to support real-time data interaction and improve application usability

FXMedia Internet Pte Ltd

Remote • 06/2022 - 02/2023

Front-End Web Developer • Internship

- Delivered high-performing, scalable front-end web applications, proactively addressing technical risks to ensure reliability, scalability, and maintainability
- Built the A*Star Web Robot Command Centre: developed control panel UI with Leaflet.js waypoint integration for robot navigation commands and a fullscreen robot control mode
- Built the IPS Web Polling System frontend from scratch, implementing polling-interval-based real-time result updates
- Researched and applied modern frontend best practices and technologies to deliver reliable, scalable client solutions
- Created UAT documentation, end-user documentation, and educational technical articles on JavaScript, React.js, and frontend development topics

EDUCATION

Bachelor of Applied Science in Computer Science

Politeknik Negeri Jakarta • GPA: 3.75

Depok, West Java • 09/2019 - 09/2023

Thesis: “Design and Develop an Android-Based Survey Reporting Application” using React Native, Express.js, and MongoDB

CERTIFICATIONS

Cloud Practitioner Essentials

Amazon Cloud and Back-End Developer Scholarship Program

SKILLS

Languages: TypeScript, JavaScript, Go

Frontend: React.js, Next.js, Vue.js, Tailwind CSS, Shadcn UI, Quasar, Redux Toolkit, Zustand, TanStack Query, Webpack Module Federation

Backend: Go Fiber, Node.js, REST API, gRPC, Background Jobs, Microservices, RabbitMQ, Redis, MinIO

Databases & ORM: PostgreSQL, MySQL, MongoDB, GORM, Prisma, Mongoose

Testing: Vitest, Testing Library, Mockery, Unit Testing, Grafana k6

Tools: Git, Postman, Figma, Lighthouse, Nx, NPM/Yarn/PNPM, Docker, ChatGPT Plus, GitHub Copilot