

# UKASYAH RAHMATULLAH ZADA

## Software Engineer

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### PROFESSIONAL SUMMARY

Software Engineer with 7+ years of professional experience (2019-present) specializing in Framework Design, Developer Tooling, and full-stack engineering across web and mobile. Creator of multiple published NPM packages with 3,162+ GitHub contributions. Expert in building scalable systems using React/Next.js and NestJS, with experience in HealthTech integrations and complex multi-service platforms.

### PROFESSIONAL EXPERIENCE

#### Frontend Programmer

June 2024 - Present

PT Administrasi Medika | Jakarta

- Built a bridge API using NestJS to integrate Indonesia's SatuSehat platform into existing TPA insurance systems, transforming data bidirectionally between FHIR format and internal data structures, with OAuth2 authentication for secure government integration.
- Developed a Progressive Web App using Next.js and React for marketing promos and food-outlet sales, integrated with a Flutter mobile application via access token passing.
- Built a provider management system with Next.js for hospitals to handle medicine order workflows, implementing real-time verification flows with Redux state management and form validation with React Hook Form.

#### Open Source Framework Developer

2022 - Present

Self-Employed

- **@meonode/ui**: Architected a type-safe React UI engine that eliminates JSX in favor of function-based composition; optimized for strict TypeScript inference and custom theme resolution.
- **@meonode/canvas**: Developed a declarative server-side image generation engine using Skia and Yoga Layout for complex Flexbox-based rendering on the server.
- **MeoCord**: Built an extensible, decorator-based framework for Discord.js with custom CLI tooling for rapid bot development and modular architecture.

#### Freelance Application Developer

2019 - 2021

Self-Employed

- Delivered full-stack web and mobile solutions using React Native, Next.js, and Laravel for diverse client requirements.
- Managed end-to-end deployment pipelines using Docker and GitLab CI/CD, focusing on system reliability and scalability.

### KEY PROJECTS

#### ChuTao — Full-Stack Genshin Impact Discord Bot System

TypeScript · Discord.js · NestJS · Next.js 16 · React 19 · PostgreSQL · Prisma · Redis · RabbitMQ · Docker

- Built a production-grade, multi-service platform consisting of 3 integrated microservices: Discord bot (chutao-djs), NestJS REST API (chutao-srv), and Next.js login portal (chutao-web) for Discord OAuth and HoYoLab account linking.
- Implemented 15+ game features with rich image card generation using Skia Canvas and custom Yoga Layout engine; integrated circuit breaker patterns (Opossum) for resilience and RabbitMQ for async messaging.
- Built authentication flows with Discord OAuth2, HoYoLab account linking with Geetest CAPTCHA verification, JWT token management with refresh token rotation, and automated daily check-ins via scheduled jobs.
- Deployed containerized services with Docker Compose across dev/staging/production environments with automated deployment scripts and environment-specific configuration management.

## TECHNICAL SKILLS

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**Languages:** TypeScript, JavaScript, Kotlin, Java, PHP, Python

**Frontend:** React.js, Next.js, Remix, Redux, React Native, PWA, Emotion, MUI

**Backend:** NestJS, Laravel, CodeIgniter, Fastify, REST, GraphQL, Node.js

**Infrastructure & Data:** PostgreSQL, Prisma, MariaDB, MongoDB, Redis, Docker, CI/CD, RabbitMQ, HL7 FHIR

**DevOps & Tools:** Docker Compose, GitLab Runner, Puppeteer, Sentry, Google Cloud Logging, Jest, Postman, Git

## EDUCATION

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**Associate of Communication, Informatics Management**

2016 - 2019

*Politeknik Informatika Nasional Makassar | Makassar*

## OPEN SOURCE CONTRIBUTIONS

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**9 Public Repositories • 3,162+ Contributions • 7 NPM Packages**

Framework Design • Developer Tooling • UI/UX Engineering • Full-Stack Engineering