# ACHMAD FATKHARROFIQI

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Experienced Software Engineer and Web Developer with a strong background in building and maintaining robust, scalable web and mobile applications. Proficient in a wide range of technologies including Node.js, Golang, Laravel, Next.js, TanStack Query, React.js, and React Native, as well as relational and document databases such as PostgreSQL, MySQL, and MongoDB. Proven ability to lead software development projects end-to-end from designing architecture and writing clean, maintainable code to deploying systems and optimizing performance. Skilled in API integration, background task processing, and real-time data synchronization across platforms. Experienced in delivering custom software solutions for diverse sectors, including government and logistics, with a strong focus on improving system reliability, performance, and user experience. Passionate about solving complex problems, streamlining development workflows, and collaborating with cross-functional teams to exceed project goals and expectations.

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## EXPERIENCE

**Software Engineer | PT Koltiva| Jakarta, Indonesia**
February 2023 – Present

- Developed and maintained full-stack web applications for the Koltitrace and Cocoatrace platforms, focusing on improving user experience and system efficiency.
- Collaborated with cross-functional teams to design and implement new features that enhanced application responsiveness and functionality.
- Optimized APIs and integration workflows to enable seamless data exchange with external partners and third-party systems.
- Maintained and enhanced producer-consumer architecture using AWS SQS for queuing and ECS for running background consumers, ensuring reliable message processing at scale.
- Developed an internal logging tool using AWS Lambda, improving monitoring and visibility across distributed services.

**Software Team Lead | PT Brainmatics Indonesia Cendekia | Jakarta, Indonesia**
January 2021 – December 2022

- Promoted to lead the development team responsible for strategic government applications including the continuation of SIPP 2.0, SIe-KTA, SiSDM, and Sismutjab.
- Oversaw the entire software development life-cycle, including planning, execution, testing and deployment.
- Managed team of developers, delegated tasks effectively, and ensured timely and high-quality project delivery.
- Facilitated Agile workflows and improved team productivity through regular sprint planning and review sessions.
- Acted as the main point of contract for technical alignment with client and stakeholders, ensuring that solutions met organizational needs.

**Senior Programmer | PT Brainmatics Indonesia Cendekia | Jakarta, Indonesia**
January 2018 – December 2020

- Served as senior developer on the e-KIAT Guru project, contributing to the design and implementation of features to support educational monitoring and accountability.
- Participated in the early development of SIPP 2.0, focusing on backend services, database structure, and API integration.
- Collaborated with other developer and designer to deliver robust, user-friendly applications.
- Contributed to codebase quality through peer reviews and consistent adherence to software best practices.

- Supported testing and deployment processes to ensure smooth production rollouts.

**Programmer | PT Brainmatics Indonesia Cendekia | Jakarta, Indonesia**
January 2017 – December 2017

- Took on a more independent role in the Desk MELATI project, contributing to the development of core features and improvements.

- Collaborated with analyst and cross-functional teams to refine system requirements and enhance application usability.

- Implemented application modules, handled debugging, and participated in deployment and post-relate maintenance.

- Contributing to testing and feedback loops to ensure the system met user need and organizational goals.

**Junior Programmer | PT Brainmatics Indonesia Cendekia | Jakarta, Indonesia**
April 2015 – December 2016

- Joined as an entry-level developer, gaining foundational experience in software development by supporting the STEFFy project.

- Worked under close supervision of senior engineers to understand coding practices, system design, and collaborative workflows.

- Assisted in module development and testing, gradually becoming more confident with codebase contribution and task ownership.

- Learned best practices in version control, bug tracking, and team collaboration within real-world project settings.

# EXPERIENCE FREELANCE

**Mobile Developer (Collaborative Project) | Remote**
April 2023– Present

- Collaborated with a small team to design, develop, and launch the Dzikir App, a mobile application to support daily Islamic practices.

- Implemented key features including Al-Qur'an integration by consuming a third-party Quran API, allowing users to read and explore verses within the app.

- Utilized React Native to ensure a seamless experience across Android and iOS devices.

- Contributed to frontend development, navigation structure, and UI consistency using modern mobile design principles.

- Participated in collaborative coding, version control, and testing to ensure a smooth user experience and stable releases.

**Backend Developer (Freelance Project) | Remote**
September 2023– December 2023

- Designed and developed the backend system for Pusat Rumah Lelang, a properly listing platform, using Golang and PostgreSQL.

- Built core features such as property listings, user authentication, and search functionality via RESTful APIs.

- Structured the database schema to support extensibility and maintainable relations between property, user, transaction data.

- Deployed the application manually to a cloud VPS using Docker Compose, managing runtime environments and service restarts.

- Project was discontinued before launch due to following limitations, but the backend system and deployment were successfully completed.

**Frontend Developer (Freelance Project) | Remote**
September 2024– December 2024

- Developed a responsive web interface for Minehaul, a real-time mining vehicle monitoring platform, aligning closely

with Figma design specifications to ensure accuracy and usability across devices.

- Built consistent and accessible UI components using ShadCN UI, styled with Tailwind CSS to match design systems and improve maintainability.

- Implemented TanStack Query to handle server state management and efficient data fetching, ensuring a responsive and reactive user experience.

- Utilized Zustand for client-side state management, enabling smooth user interactions and component communication.

- Collaborated with backend and design teams to implement features such as user authentication, data tables, and dynamic forms.

- Applied performance optimization techniques such as lazy loading, code splitting, and clean component architecture.

**Fullstack Developer (Freelance Project) | Remote**
March 2025 – April 2025

- Built a fullstack vehicle tracking platform, Pendawa Logistik, to monitor vehicle movement and perform real-time synchronization with external systems.

- Developed the backend using Golang, implementing RESTful APIs and background tasks to manage scheduled data sync and update vehicle location in real time.

- Designed and managed the PostgreSQL database schema, ensuring data consistency, indexing, and scalability.

- Deployed the backend using Docker on a VPS, including setup for environment variables, database, and background workers.

- Created a responsive frontend using Next.js, styled with Tailwind CSS and ShadCN UI, and handled API data using TanStack Query.

- Managed global client state with Zustand, and implemented user-facing features like vehicle list, sync status, and detailed tracking view.

## TRAINING & FACILITATION EXPERIENCE

**Trainer (PHP Laravel Fundamentals) | PT Brainmatics Indonesia Cendekia | Jakarta, Indonesia**
July 2018 – December 2022 (*Part-Time*)

- Conducted periodic training sessions on PHP and Laravel fundamentals, both in-person and online.

- Designed structural learning modules, coding exercises, and assessments tailored to beginner and intermediate developers.

- Facilitated interactive workshops to enhance participant's practical understanding of modern backend development.

- Provided individual guidance and feedback to improve participants' coding practices and project readiness.

## TECHNICAL SKILLS

- Languages & Frameworks: Node.js, Golang, Laravel, Next.js, React.js, React Native, TypeScript, JavaScript, PHP.

- State & Data Management: TanStack Query, Zustand, Redux.

- Databases: PostgreSQL, MySQL, MongoDB.

- Tools & Platforms: Docker, VPS, AWS (SQS, Lambda, ECS), Git, Linux, Figma.

# EDUCATION

**Bachelor of Informatics Engineering, Minor in Computer Science | Nusa Mandiri University**
Degree obtained September 2019

- Achieved a string GPA of 3.7 through dedication to mastering technical and analytical skills

- Relevant coursework: Advanced Web Development, Database Systems, and Mobile Application Development

- Built an innovative Android attendance application utilizing GPS location tracking for efficient, real-time workforce management as undergraduate thesis

**Master of Computer Science | Nusa Mandiri University**
Degree obtained August 2022

- Attained an exceptional GPA of 3.91, reflecting advanced expertise in computational methodologies

- Relevant coursework: Advanced Algorithms, Software Engineering, and Machine Learning

- Pioneered thesis research on sentiment analysis using BERT, delivering high-precision insights into textual data to optimize decision-making processed.