

# ANDRIAN JUNIOR KARLOYS NG

## Full Stack Engineer

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### SUMMARY

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I am a Full Stack Engineer with over 2 years of experience specializing in developing user-centric applications within microservice architectures and cloud infrastructures. While I have a strong foundation in full-stack development, my passion lies in crafting responsive and engaging user interfaces using technologies like JavaScript, React, and Next.js. I excel in collaborating with cross-functional teams to deliver high-performance web applications and have experience in leveraging back-end technologies to enhance user experiences.

### WORK EXPERIENCE

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#### PT PHAROS – Jakarta, Indonesia

Full-Stack Engineer (February 2022 – November 2024)

- Collaborated with cross-functional teams to define API requirements and ensure seamless integration with various systems and data sources.
- Developed logistic-based API using microservice architecture to optimize transportation and supply chain operations.
- Performed thorough testing and continuous integration to identify and resolve bugs and bottlenecks, ensuring high API performance and reliability.
- Engineered comprehensive database schemas that seamlessly accommodate evolving business requirements and intricacies of intricate data relationships.

### PROJECT

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#### Logistics

- Developed a comprehensive logistics platform featuring robust authorization mechanisms to ensure secure access control.
- Implemented multilanguage support, enhancing usability across diverse user bases.
- Designed a fully responsive front-end, ensuring optimal user experience on all device types.
- Enabled PDF and Excel downloads for reports and data, facilitating easy access to logistics documentation.
- Utilized WebSocket for real-time updates and Redis for efficient caching and performance optimization.
- Integrated Google Cloud Storage (GCP bucket) for scalable storage solutions.

#### Stock Opname

- Developed a stocktake opname system leveraging WebSocket for real-time data updates, improving responsiveness and user interaction.
- Implemented concurrent processing using Go's goroutines (go func) to handle multiple tasks efficiently.
- Integrated Google Cloud Storage (GCP bucket) for secure and scalable storage of stocktake data.
- Ensured the front-end design is fully responsive, providing seamless user interaction across devices.
- Enabled PDF and Excel downloads for reports and data, facilitating easy access to logistics documentation.

#### Point of Sales

- Architected a highly scalable POS solution designed for deployment across multiple outlets, ensuring efficient operations and high availability.
- Optimized system performance with Redis caching, significantly accelerating data retrieval and improving transaction speed.
- Developed a fully responsive front-end featuring an intuitive UI design that combines modern aesthetics with seamless functionality, offering an exceptional user experience (UX) that is easy to navigate and quick to learn.
- Integrated with EDC machines for real-time, secure payment processing, providing a streamlined and hassle-free checkout experience.

#### Product-Tracking System

- Developed a product-tracking solution with the ability to import Excel files and automatically generate and populate data into the database, streamlining product tracking processes.
- Built a responsive interface to ensure seamless accessibility across devices, enhancing the user experience (UX).

- Designed the system with a user-friendly UX, making it intuitive and easy to use for all user levels.
- Integrated WebSocket for real-time updates, improving data accuracy and responsiveness.

## QR-BPOM

- Spearheaded the integration of a cutting-edge QR code solution in collaboration with a mechatronic team, enhancing product traceability and ensuring compliance with BPOM regulations.
- Harnessed the power of Debezium to facilitate real-time data synchronization between local and cloud environments, significantly enhancing operational efficiency and data integrity.
- Designed the system to support scalability and adaptability, positioning it for future enhancements and seamless integration with emerging technologies.

## Partner

- Developed a sophisticated platform utilizing Elasticsearch to enable advanced search functionalities, significantly improving data retrieval speed and user experience through full-text search and filtering capabilities.
- Implemented strict authorization protocols, employing role-based access control (RBAC) to safeguard sensitive information and ensure that users only access data pertinent to their roles.
- Designed the system architecture for scalability, allowing for future enhancements and the capability to handle increased user demand without compromising performance.
- Conducted comprehensive testing and optimization, ensuring the application meets high performance and reliability standards while delivering a user-friendly interface.

## SehatRaga

- Designed and implemented an intuitive user interface for easy navigation, venue search, and filtering.
- Implemented a dynamic booking calendar that displays real-time venue availability for different dates and times.
- Implemented a secure user registration and authentication system.
- Implemented a secure online booking system, allowing users to select available slots and provide event details.
- Developed a centralized admin panel for venue owners to manage bookings, view analytics, and update venue details.
- Implemented features for easy moderation, ensuring the integrity of the platform.

## Lectura

- Developed concise and engaging content that effectively communicates the essence of Lecturna and highlights the diverse range of available courses.
- Designed an aesthetically pleasing landing page that instantly captures visitors' attention, creating a positive first impression.
- Ensured the landing page looks great and functions seamlessly on various devices, from desktops to smartphones, providing a consistent experience for all users.
- Utilized analytics data to refine content strategy, enhance user experience, and maximize the impact of the landing page.

# EDUCATION

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## BINA NUSANTARA UNIVERSITY (2019 - 2023)

S1 Computer Science - GPA 3,31

# SKILLS

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- Programming Languages: Go, C++, JavaScript
- Design Tools: Figma
- Database Management & Search Engines: SQL, Firestore, Elasticsearch
- Api Integration: RESTful APIs, third-party APIs
- Framework: ReactJS, NextJS
- Software Development Methodologies: Agile
- Tools: Visual Studio Code, Postman, dBeaver, DataGrip
- Version Control: Git, GitHub