

ELKANA JUANRO MANULLANG

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Bogor, Indonesia

Fresh graduate with a Bachelor's degree in Informatics Engineering with two years of experience in full-stack development and operational program management. Proven track record of driving operational efficiency by up to 90% and enhancing client business performance by 27% through the implementation of data-driven digital transformations. Specialized in automating large-scale data processing (40,000+ records/day) and integrating AI/LLM for decision support systems. Proficient in modern tech stacks including TypeScript, React, Python, and Git CI/CD to build robust and scalable internal web tools. I am highly motivated to contribute my technical expertise to an innovative company.

EDUCATION LEVEL

Sumatra Institute of Technology – Lampung Selatan, Indonesia

Aug 2022 – April 2026

Bachelor of Informatics Engineering

GPA 3.38/4.00

WORK EXPERIENCES

Celestara Eterna – Bandar Lampung, Lampung

Mar 2024 – Feb 2026

Full-Stack Engineer – Project Based

- Automated AI-powered financial analysis by architecting the AltaQuant system, improving decision-making efficiency by 80% through LLM integration and NLP pipelines
- Boosted client operational efficiency by 90% through the end-to-end development of 3+ scalable internal web tools using React, Next.js, TypeScript, and PostgreSQL.
- Increased revenue by 27% for 2+ clients by digitalizing manual sales workflows into integrated e-commerce platforms, directly impacting business growth.
- Streamlined deployment cycles using Git CI/CD pipelines, ensuring secure third-party API integrations (OAuth) and modular RESTful API performance.

PT.Telkom Indonesia – Bogor, Jawa Barat

June 2025 – Aug 2025

Software Developer Internship

- Automated the processing of 40,000+ daily operational records, reducing manual reporting time by over 75% by migrating Excel workflows to a Python (Flask) web system.
- Ensured 100% data integrity for STB dismantling reports by engineering an automated ETL pipeline and logging system with Git CI/CD for continuous validation.
- Accelerated operational decision-making by 50% through the development of real-time dashboards with automated daily calculations and visual monitoring tools.
- Optimized database performance by integrating PostgreSQL to handle high-volume data scaling, supporting stable reporting for the entire Witel Bogor operational team.

PT.Winnicode Garuda Teknologi – Bogor, Jawa Barat

Mar 2025 – July 2025

Laravel Developer Internship – Independet MBKM

- Reduced content publishing delays by 40% by developing a real-time synchronization backend and RESTful APIs using PHP (Laravel) for a news portal.
- Improved server response time by 30% through database query optimization and the implementation of Laravel Sanctum for secure authentication.
- Delivered 5+ core system features within an Agile environment, utilizing Git CI/CD to manage version control and ensure on-time delivery of production-ready code.
- Enhanced frontend scalability and UI responsiveness by collaborating on a modular architecture using React.js and TypeScript, supporting long-term maintainability for high-traffic news platforms.

ORGANIZATIONAL EXPERIENCES

ITERA Informatic Engineering Student Association (HMIF ITERA) – Lampung Selatan, Indonesia

May 2024 – Dec 2024

Head of Operational – Leadership Development Program

- Designed a comprehensive digital leadership curriculum, including weekly modules and graduation parameters, ensuring high-quality talent development for 100+ participants.
- Optimized program budget management by leading strategic negotiations with external vendors, securing cost-efficient operational agreements.
- Facilitated cross-functional workflows using Miro, enhancing team collaboration and problem-solving efficiency by 30% during program execution.

Head of Operational

- Directed end-to-end event operations for a cross-departmental team, ensuring all activities aligned 100% with the timeline and organizational targets.
- Mitigated operational bottlenecks by conducting real-time monitoring and strict quality control over technical and logistical requirements.
- Streamlined committee communication by designing engaging visual guidelines and operational materials using Canva.

PROJECTS

LeafGenn – Automated Retail Leaflet System**2026**

- Accelerated design processing time by 91% (from 12 hours to <1 hour) by developing an automated end-to-end workflow system.
- Eliminated human errors in pricing and layout through automated data validation and visual generation using React (TypeScript) and PHP (Laravel).
- Optimized system architecture by conceptualizing database schemas using Miro to ensure the system could accurately validate and process large volumes of product data.

AltaQuant – AI Trading & Investment Decision Support System**2025**

- Improved financial analysis efficiency by 80% through the development of an AI-powered system that enables data-driven decision-making.
- Enhanced analytical consistency and reduced decision bias by implementing a hybrid approach combining rule-based logic with NLP and LLM integration.
- Built a production-ready AI backend using Python to process market data, technical indicators, and sentiment analysis in real-time.

STB Dismantling & Replacement Reporting System – Telkom Witel Bogor**2025**

- Spearheaded the digital transformation of operational reporting by replacing manual Excel-based processes with an automated system, processing 40,000+ data records per day.
- Ensured 100% data accuracy and consistency by engineering an ETL pipeline integrated with PostgreSQL for scalable processing.
- Delivered real-time stakeholder visibility through a responsive dashboard (Tailwind CSS) with automated calculation and Excel export features.

CERTIFICATES

Learn to Become an Intermediate Full-Stack JavaScript Web Developer – ITBOX**2024**

- Completed comprehensive project-based training focusing on structured application development, system architecture (MVC), and advanced problem-solving.

Learn to Become a Beginner-Level Full-Stack JavaScript Web Developer – ITBOX**2023**

- Acquired foundational capabilities in algorithms, data structures, and computational problem-solving to support efficient system development.

SKILLS

- **Hard Skills** : TypeScript, JavaScript, Python, React.js, Next.js, PHP (Laravel), RESTful API Development, PostgreSQL, Data Processing (Pandas), Git CI/CD, Cloud Infrastructure, System Optimization, Digital Collaboration Tools (Miro, Canva).
- **Soft Skills** : Problem Solving, Analytical & Systems Thinking, Teamwork & Cross-functional Collaboration, Ownership & Accountability, Agile Adaptability.