MOCHAMAD RYAN HANAFI

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Jl. Raya Parang Poncol, Alastuwo, Poncol, Magetan, Indonesia

PROFESSIONAL SUMMARY

Dedicated and results-driven IT professional specializing in backend engineering, web development, cloud computing, and machine learning. Proven expertise in designing and deploying scalable applications, developing robust APIs, and optimizing system performance through modern frameworks and cloud technologies. Adept at leveraging containerization, automation, and machine learning to deliver high-quality, user-focused solutions. Recognized for strong problem-solving, collaboration, and continuous professional growth.

WORK EXPERIENCE

PT Yamaha Musical Products Indonesia, Pasuruan, East Java

Management Information System Intern

Aug 2025 – Present

- Developed a machine learning system for Hako detection and automated item counting via QR code scan, increasing inventory accuracy by 98%.
- Built an object detection model to identify missing stationery, reducing manual checking time by 70%.
- Engineered and enhanced web application features, including process automation, CRUD operations, and performance optimizations, significantly boosting operational efficiency.
- Designed and implemented a scalable web application using Clean Architecture, ensuring maintainability and modularity.

PT Kita Bantu Indonesia, Jakarta

Backend Developer

May 2025 – Jul 2025

- Developed RESTful APIs in Laravel to power mobile applications, improving cross-platform data synchronization.
- Applied Clean Architecture principles to enhance backend scalability, maintainability, and unit-test coverage.
- Integrated RabbitMQ for real-time, reliable inter-service communication.
- Built and deployed secure payment modules using third-party gateways, enabling seamless transaction processing.
- Collaborated with web and mobile teams to optimize backend payment workflows and API integration.

PT Winnicode Garuda Teknologi, Bandung

Fullstack Developer

Jan 2025 – Jun 2025

- Created a modern news portal using the MERN stack (MongoDB, Express.js, React.js, Node.js) with optimized performance and responsive design.

- Secured backend services with XSS filtering, CORS policies, and rate limiting, improving system security.

- Integrated Redis caching and session management, reducing average page load time by 40%.

- Deployed the application on Google Cloud Run, ensuring scalability and cost efficiency.

EDUCATION

Politeknik Negeri Jember — Diploma in Computer Engineering (GPA: 3.90/4.00)
Jan 2022 – Jun 2026 (Expected)

- Completed academic projects: Cleaneat, SiDebuh, and Improman, focusing on innovation, usability, and real-world problem solving.

- Published journal: "Penerapan ISO 9126 dalam Pengujian Kualitas Perangkat Lunak Website J-TIT Politeknik Negeri Jember."

CERTIFICATIONS

- **AWS Re/Start Graduate** — Certificate in Cloud Computing (AWS), Aug 2025 – Oct 2025

  - Mastered IaaS, PaaS, SaaS, and AWS value proposition through hands-on projects.

- **Bangkit Academy Cloud Computing Cohort** — Certificate in Cloud Computing (GCP), Sep 2024 – Dec 2024

  - Developed MaternalCare, a Flask-based web app supporting maternal health, integrating Firebase Firestore and NewsAPI for real-time updates.

TECHNICAL SKILLS

- **Backend:** Express.js, Node.js, Laravel, Next.js, Google Cloud Platform, AWS, Golang, REST API, Microservices

- **Frontend:** Tailwind CSS, React.js, Next.js

- **Databases:** MySQL, MongoDB, PostgreSQL, Firestore, Redis

- **Machine Learning:** Python, YOLO, TensorFlow, Flask, FastAPI

SOFT SKILLS

- Communication

- Critical Thinking

- Problem-Solving

- Time Management

- Collaboration & Teamwork