

RICHARD TANDEAN

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I'm an AI-focused software engineer with hands-on experience building end-to-end automation pipelines and AI-driven content systems. I specialize in workflow orchestration with n8n, LLM integration, RAG, prompt engineering, web scraping, and image/video generation — having built a fully autonomous YouTube Shorts pipeline that converts real-time news into published videos with zero human intervention. I also bring solid full-stack engineering skills across TypeScript, Next.js, NestJS, React Native, and SQL, with experience deploying production systems on Docker and Linux. Beyond technical expertise, I bring strong communication, teamwork, public speaking, and problem-solving skills. I thrive under pressure and am committed to contributing to impactful products that create meaningful value.

Education

Multimedia Nusantara University – Tangerang, Indonesia
Bachelor Degree in Computer Engineering, 3.54/4.00

Aug 2021 – Jun 2025

Work Experience

Lejel Home Shopping – Jakarta, Indonesia
AI & Fullstack Developer

July 2025 – Now

- Architected an autonomous end-to-end media pipeline that transforms real-time news into fully rendered and published YouTube Shorts from scraping to publishing with zero human intervention.
- Orchestrated multi-stage AI workflow using **n8n**, including news scraping with **Crawl4AI**, LLM-based script generation, ElevenLabs text-to-speech, Whisper transcription with word-level timestamps, and AI-powered image/video generation for each scene.
- Built backend rendering service with **NestJS** that composes scenes, burns dynamically positioned subtitles, synchronizes narration/visuals/subtitles, and renders final videos via **FFMPEG**.

PT Maro Anugrah Jaya – Tangerang, Indonesia
Fullstack Developer Contract

December 2024 – May 2025

- Developed MIRA (Maro Integrated Resource App), a CRM application, using **Expo React Native** and **Express.js** to streamline business processes.
- Developed a POS App for Bowbo Dimsum, enhancing user interface and added multiple shop feature in **Expo React Native** and **Express.js**.
- Deployed the application and backend services to the server using **Proxmox**, enabling stable production operations.

Agile Technica – Tangerang, Indonesia
Frontend Developer Intern

May 2024 – October 2024

- Developed and maintained cross-platform mobile applications using **Expo React Native** for TemanHR and BirdTec.
- Worked with Project Managers and Backend Developers to plan new features and participated in Agile meetings like daily stand up, sprint planning, and retrospectives to support team collaboration and delivery.
- Gained experience in the mobile app development process, including debugging, performance optimization, state management and mobile application development life-cycle.

Relevant Skills

- **Programming Skills:** HTML, CSS, Javascript, Typescript, Tailwind, ReactJS, NextJS, MySQL, ExpressJS, NestJS, Python, React Native, N8N.
- **Others:** Git, Expo, Eas, Android Studio, Xcode, Firebase, Firebase Cloud Messaging (Push Notification), Google Play Console, Google OAuth, Facebook OAuth.

Project

UPT JPD Kota Yogyakarta

Nov 2025 – Des 2025

Chatbot (AI Automation) Engineer

- Designed and deployed chatbot for WhatsApp and Instagram (@uptjpdjogja) channels using N8N and Deepseek API for the model.
- Created and refined prompts to ensure the AI model produced accurate and relevant responses based on the expected conversation flow.
- Deployed WAHA (WhatsApp Unofficial API) as a WhatsApp web scraper and configured PostgreSQL to store conversation memory.

Cryptovoid.ai

Nov 2025 – Now

AI Content Creation Engineer

Cryptovoid.ai is a full AI automated crypto media where it provides fast and reliable news all around the world. The MVP launched in November where it began scraping news from Coindesk and started in Instagram and now available in Threads.

- Selfhosted N8N and created the whole news content automation in N8N using Deepseek API for AI Agent and FLUX 2 Kontext for image generation.
- Developed backend service using NestJS to provide image reference for image generation and putting the headline news title on the image.
- Researched and continuously optimized prompt strategies for both the AI news-generation agent and the image-generation model to achieve higher content accuracy, relevance, and visual consistency.

EPICS (Engineering Projects in Community Service) IN IEEE

Jan 2024 – Jan 2025

Fullstack and IoT Engineer

- Designed and developed an end-to-end IoT system using ESP32 and Raspberry Pi to collect and monitor environmental data, such as Light, Temperature, Humidity and Rainfall.
- Managed reliable long-range communication between microcontroller and server using LoRa technology.
- Collaborated on UI/UX design for the associated web platform and implemented responsive, clean, and maintainable front-end code based on the approved design.

Organizational Experience

BEM UMN – Tangerang, Indonesia
Supervisor of Student Activity Unit

Des 2022 – Dec 2023

- Supervised 5 Student Activity Units, including Lions Basketball, Lions Volleyball, Taekwondo UMN, SPECTRE, and Capoeira UMN.
- Managed scheduling and operational coordination of basketball and volleyball courts within the university.
- Acted as a liaison to ensure smooth communication and collaboration between Student Activity Units and the Student Affairs Department