CHRISTO KURNIAWAN DIADEMA WIRORENO

Full-Stack Developer · NestJS · TypeScript · Laravel · Next.js · Flutter

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SUMMARY

Full-stack developer and Informatics Engineering graduate (GPA 3.63/4.00) who builds web and mobile systems end to end, from REST APIs and databases to web dashboards, mobile apps and deployment. Has delivered production systems for a construction company, a K–12 school and a district government office, using NestJS, Laravel, Next.js and Flutter on PostgreSQL and MySQL. 2nd place winner of an international mobile app development competition. Uses AI-assisted development (Claude Code) to work faster while validating generated code through review, linting and tests.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, PHP, SQL, Dart, Python, C++ (Arduino)

Backend: NestJS, Laravel, REST API design, TypeORM, JWT / Passport authentication, Swagger (OpenAPI), payment gateway integration (Xendit)

Frontend & Mobile: Next.js, React.js, Nuxt 3, Tailwind CSS, Bootstrap, Flutter (GetX)

Databases: PostgreSQL (incl. pgvector), MySQL

DevOps & Tools: Git, GitHub, Linux VPS, SSH / rsync, PM2, cPanel hosting, Postman, Jest, Supertest, ESLint, Prettier

Other: IoT & microcontrollers (Arduino, ESP32, Blynk), network fundamentals (IP addressing, routing), cybersecurity fundamentals

Languages spoken: Indonesian (native), English (professional working proficiency)

WORK EXPERIENCE

Freelance Full-Stack Developer — CV Sukses Bangunindo 2026 – Present
LARAS — HR, attendance and payroll system (web + mobile), team project · Makassar

- Co-developed a production HR and attendance platform: a NestJS (TypeScript) REST API, a Next.js back-office dashboard and a Flutter mobile app covering employees, departments, shifts, schedules, leave requests, shift swaps and payroll.
- Built REST endpoints across 18 modular NestJS feature modules with TypeORM and PostgreSQL, DTO validation and Swagger/OpenAPI documentation.
- Implemented face-recognition attendance: SCRFD and MobileFaceNet ONNX models running in Node.js, 512-dimension face embeddings stored in PostgreSQL (pgvector) and matched by cosine distance, combined with GPS geofencing against the office radius.
- Secured the API with JWT authentication (separate web and mobile flows), Helmet, rate limiting, bcrypt hashing, and email verification / password reset via Nodemailer.
- Delivered payroll calculation with payslips, Excel report exports and notifications; deployed the backend to a Linux VPS with an automated rsync/SSH and PM2 build-and-restart script.

Freelance Web Developer — Client projects 2022 – Present

- **SIKALA (Kecamatan Lau):** built a digital administration service where residents request letters online (micro-business permits, marriage dispensation, official assignment letters), track status in real time, and verify letter authenticity by QR code and digital signature (Laravel, MySQL).
- **Sekolah Bunda Kasih Sudiang:** built an online school-fee payment system with Xendit virtual-account payments (BCA, BNI, BRI, Mandiri, Permata), webhook payment confirmation, role-based access for admin, treasurer, principal and parents, and reconciliation reports (Laravel, MySQL).
- **Company and store websites:** delivered a company profile website for PT Tritunggal Energi Sukses Jaya and a product catalog with WhatsApp ordering and an admin panel for Kamilaku Store; deploy and maintain client sites on cPanel hosting.

STEM Teacher Intern (Magang Berdampak) — Educourse.id / PT Maleo Edukasi Teknologi Aug 2025 – Dec 2025

- Taught K–12 STEM through robotics, coding and digital tools with project-based learning, and evaluated student projects on implementation and technical performance.

Assistant Teacher (MBKM Teaching Assistantship) — SMK Telkom Makassar Feb 2025 – Jul 2025

- Mentored vocational students in programming and app development, supported their technology projects, and organized a national seminar on technical skills.

- Built a web and mobile student attendance system for the school (NestJS, Next.js, Flutter, MySQL) with real-time attendance and a parent app for attendance, location and notifications.

Educational Game Developer (MSIB Batch 7) — PT Mitra Edukasi Pratama, Kampus Merdeka Sep 2024 – Dec 2024

- Developed educational games and interactive learning modules as part of a team in the Kampus Merdeka independent study program.

Earlier experience

Photocopier Technician (freelance), PT Galva Technologies, Jul 2023 – Sep 2024 · Computer Technician intern, BMKG Region IV Makassar, Jan – Apr 2017

SELECTED PROJECTS

- **GenSmart — education platform for remote areas** (Flutter, Laravel, REST API, MySQL): 2nd place, international mobile app competition. Donations for school programs, scholarship selection with an AHP + SAW decision support system, and volunteer teacher registration, managed from a web admin panel.
- **Susi Air Pilot Portal — technical test** (Nuxt 3, NestJS, TypeScript, Pinia): mobile-first portal for flight time limitation compliance (CASR 135) and duty roster, JWT authentication, Clean Architecture backend with automated tests.
- **AS Rental — car rental platform** (Laravel, MySQL): fleet catalog, online booking and vehicle recommendations using TOPSIS and collaborative filtering.
- **Research questionnaire & analysis app — capstone** (Laravel, MySQL): Likert questionnaire with built-in Cronbach's alpha, Pearson correlation and multiple linear regression, plus respondent data export.
- **IoT projects** (Arduino, ESP32, Blynk): solar tracker, automatic water pump, PLN electricity monitoring, smart school bell (Arduino Nano + Android) and a voice-controlled RC car.

EDUCATION

Bachelor's Degree (S1), Informatics Engineering — Universitas Dipa Makassar 2022 – 2026
GPA 3.63 / 4.00

Vocational High School (SMK), Software Engineering — SMK Darussalam Makassar 2015 – 2018

CERTIFICATIONS & TRAINING

- Intermediate Cybersecurity + AI Essentials — Google × Digital Talent Academy (Komdigi), 2026 (in progress)
- Intermediate and Fundamental Associate Network Administrator — Digital Talent Academy (Komdigi), 2026
- Fundamental of Cybersecurity — Digital Talent Academy (Komdigi) × Huawei, 2026
- Google Cybersecurity courses (Coursera), 2026: Foundations of Cybersecurity; Play It Safe: Manage Security Risks; Connect and Protect: Networks and Network Security; Tools of the Trade: Linux and SQL; Assets, Threats, and Vulnerabilities
- Juara Siber, Talent Scouting Academy — Digital Talent Scholarship (Kominfo), 2024
- MSIB Certified Independent Study — Kampus Merdeka, 2024 · Magang Berdampak (STEM Teacher) — PT Maleo Edukasi Teknologi, 2025

AWARDS & ACTIVITIES

- 2nd Place, International Mobile App Development Competition (Proxo Coris) — Universitas Klabat, 2025
- Public Relations Coordinator (2024 – 2025) and Public Relations member (2023 – 2024) — PMK Universitas Dipa Makassar