Muhammad Randy Kurniawan

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Kota Bekasi & Kabupaten Purwakarta, Indonesia

Mechatronics and Artificial Intelligence student at Universitas Pendidikan Indonesia (GPA 3.81/4.00). I build IoT prototypes, machine learning models, and the web apps that connect them, and I design the campaigns that promote them. Second runner-up at the COMPSPHERE 12 International Web3 Hackathon and a Google Student Ambassador (2026, Batch 2). Seeking an internship in embedded systems, AI, or web development.

ACHIEVEMENTS

2nd Runner-up, COMPSPHERE 12 International Web3 Hackathon, President University — Oct 2026

- Led team LFT as project lead to build RantaiAsa (rantaiasa.xyz), a blockchain and AI verification layer for West Java social aid, in the 24-hour final round.

Google Student Ambassador, Google, 2026 Batch 2, representing UPI Kampus Purwakarta — 2026

EDUCATION

Universitas Pendidikan Indonesia, Purwakarta — Aug 2024 - Present
Bachelor of Engineering, Mechatronics and Artificial Intelligence
GPA 3.81 of 4.00

SMKN 5 Kota Bekasi, Bekasi — Jun 2021 - Jun 2024
Software Engineering
Average score 87 of 100

WORKING EXPERIENCE

Amary Project, Bekasi & Purwakarta — 2026 - Present
Founder & Owner

- Run a creative studio offering event photobooth, photo and video, and portfolio or custom websites across Bekasi, Karawang, Purwakarta, and Bandung.
- Built the photobooth cloud backend and web platform with Node.js, Express, and Multer for photo uploads.

Freelance Web Developer & Content Creator, Hybrid — Jul 2025 - Present

- Built and maintained responsive websites for 5+ clients with Laravel and MySQL, tested across major browsers.
- Translated client business requirements into technical specifications and UI/UX flows.
- Produced gaming and education content that reached 40k+ views and 60+ new followers within 3 months.

Lazy Potato Gaming House, Bekasi — Jan 2026 - Apr 2026
Marketing Creative & Crew Outlet

- Planned and produced TikTok and Reels content that promoted the outlet as a place to date, hang out, and play.
- Managed the outlet's social media and designed photo, video, and graphic promotions.

SMPN 1 Purwakarta, Purwakarta — Sep 2025 - Dec 2025
Extracurricular Coach, Mechatronics

- Taught junior high students electronics, robotics, and basic programming.
- Designed hands-on projects and mentored students for competitions and school projects.

CV Apindo Brother Sukses, Bekasi — Jul 2022 - Oct 2022
Digital Marketing Intern

- Ran SEO and social media promotion for dropshipping products.

PROJECTS

RantaiAsa: Anti-Fraud Social Aid Verification with Blockchain and AI (Project Lead) 2026

- Led a 3-person team; built the FastAPI AI engine, Express API gateway, and blockchain oracle.
- Trained a logistic regression eligibility model on BPS West Java poverty data (14 features, ROC-AUC 0.934).
- Connected the model to 3 Solidity contracts on Polygon Amoy (18 passing tests) and hashed NIK with HMAC-SHA256 so raw IDs never reach the chain. github.com/randkurn/Rantai-Asa

Building Energy Consumption Forecast: Hourly Load Prediction for an Office Building 2026

- Engineered features and trained a HistGradientBoosting model that cut MAE from 24.3 kWh (weekly baseline) to 4.9 kWh, about 3.4% of mean load. Served via FastAPI and Streamlit.

SMART-WHEEL: IoT and ML Monitoring Dashboard for a Mini Wheelchair Prototype 2026

- React and TypeScript dashboard that reads ESP32 IMU, ToF, and seat-pressure telemetry over MQTT or Firebase, with surface classification, obstacle radar, and a 3D model.

KARISMA: Circular Feed, Education, and Business Program for Poultry Farmers, Desa Karoya 2026

Pond Water Quality Monitoring System: Sensors, Embedded Systems, and Data Analytics 2025

SIGEMA: Infant Carrying Training Doll with Real-Time LED and Audio Feedback for Nurses 2025

Petualangan Hijau: 2D Environmental Education Game in Java 21 2025

Offline Digital Library, Desa Wiyata Tech Purwakarta 2025

kenyangGizi: Nutrition Assistant in C with BMI, BMR, and TDEE Calculation (6-person team) 2024 - 2025

RZ Discord Bot: OpenAI Chatbot and Server Tools for a Gaming Community (Node.js, MySQL) 2024

Bridge Safety Prototype: Real-Time Earthquake Detection with Sensor Alarms 2024 - 2025

Spiel Store & Spiel Organizer: Game Account Marketplace and Esports Events 2023 - 2024

LEADERSHIP & ORGANIZATIONS

Head of Communication & Information (Kominfo), HIMATRONIKA-AI 2026

- Lead the department behind the association's articles on himatronikaai.com, Instagram feed, and event publications.

Head of Esports Division, UPI Kampus Purwakarta Sports Unit 2026

Putra Sosial Media 2026, Campus Ambassador (Social Media), UPI Kampus Purwakarta 2026

UNITY Student Warchief, UniPin Community, representing UPI Kampus Purwakarta 2026

Chief Executive, HIMATRONIKA-AI Leaders' Preparation 2025 (190+ officers trained) Jan 2025

Head of Hacker Division, Algorithmia Fest 2.0 Mar 2025

- Managed registration for 100+ participants and designed invitations sent to 10+ high schools in Purwakarta.

Team Leader, OURTHINKS Software Engineering Student Project Group Aug 2023 - Jun 2024

Chief Executive, ISOLA Sport Fest 2025 Jul 2025

CERTIFICATIONS

EF SET English Certificate, C1 Advanced (65/100), EF Standard English Test (cert.efset.org/id/HKia6R) Oct 2026

SQL and Relational Databases 101, IBM Developer Skills Network Dec 2025

School Website Application, PT Federal Nittan Industries May 2024

SKILLS

- **Hardware & IoT:** ESP32, sensors, MQTT, Firebase, electronics, robotics.
- **AI & Data:** Python, scikit-learn, pandas, FastAPI, Streamlit, OpenAI API.
- **Web & Blockchain:** React, TypeScript, Node.js/Express, Laravel, PHP, MySQL, PostgreSQL, Solidity, Hardhat.
- **Programming:** C, C++, Java, Python, JavaScript.
- **Design & Media:** Figma, Adobe Photoshop, Lightroom, Canva, CapCut, PixelLab; logo, poster, and social media design; photography and videography.

- **Languages:** Indonesian (native), English (C1 Advanced, EF SET).