

Verindra Hernanda Putra

Software Engineer | Full Stack Developer · AI / Machine Learning Engineer | Laravel · React / Next.js · Node.js · Python · PostgreSQL · Docker | IT Graduate, Telkom University (GPA 3.92)

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PROFILE SUMMARY

I am **Verindra**, an Information Technology graduate from **Telkom University, Bandung** with a **GPA of 3.92/4.00 (Summa Cum Laude)** and a **Software Engineer** who works across **full stack development and AI/machine learning**. I build web applications end to end, from database design and **RESTful APIs** to responsive front-ends, using **Laravel, React/Next.js, Node.js, and PostgreSQL/MySQL**, and I build data and ML pipelines in **Python and SQL** with **Pandas, scikit-learn, TensorFlow, PyTorch, LangChain, and FastAPI**, shipped with **Docker and CI/CD**.

I have led teams of 3–4 developers to deliver systems used by real clients, earning **six registered Intellectual Property Rights (HKI)**, and produced **five research publications** (three IEEE, two journals). As Head of IT Support and Research at a university lab and as a lecturer assistant, I developed strong **communication, problem-solving, and collaboration** skills and the ability to explain technical decisions to non-technical stakeholders.

PROFESSIONAL EXPERIENCE

Lead Full Stack & AI Developer | Freelance & Academic Projects Jul 2025 – Jul 2026

- **Marketing Campaign Manager (Thesis, Hotel Industry):** Engineered an AI-integrated omnichannel platform for a hotel marketing team in Bali, with a design editor, scheduled campaign publishing, generative-AI analytics (OpenAI LLM), and broadcasting through the Meta Graph API (WhatsApp, Facebook, Instagram) and Resend email. Registered as HKI and published as a first-author IEEE paper.
- **WebGIS Village Information System:** Led a 4-member team to deliver a Laravel WebGIS platform that integrates ArcGIS drone mapping data (HKI).
- **E-Commerce, LMS & Community Platforms:** Developed the “Tirta Manik” and Cimaragas Batik marketplaces with role-based portals (HKI), a Web and Flutter learning management system (IT-BOX), and a village waste management system (SIPS) with automated payments and an analytics dashboard.

IT Researcher (Contract) | Telkom University Jan 2026 – Present

- **Privacy-Preserving DDoS Detection:** Built a federated-learning detection system for 5G edge (MEC) environments with 6 distributed ML/DL models and a 5-method hybrid feature selection; accepted in an international journal.
- **Customer Churn Prediction with Explainable AI:** Compared machine learning models and applied LIME to explain predictions for business retention; published in the RIGGS Journal (2026).

Full Stack Engineer Intern & Team Lead | Yunas Studio, Bandung Jul 2025 – Oct 2025

- Led a 3-member team to build a cashier and administration web app end to end using **Laravel, PHP, and MySQL**, with routine code reviews and close contact with the business owner until the system ran in daily operations; obtained HKI and DUDI recognition.

Big Data Researcher & Head of IT Support | MBC Laboratory Jul 2024 – Aug 2026

- **AI-Generated Image Detection:** Compared Custom CNN, Inception-V3, MobileNet, ResNet-50, and VGG-19; first author and presenter at IEEE EECSE 2025.
- **Leadership & Tooling:** Led the research division and mentored junior researchers to IEEE publications; built a Python/Streamlit no-code ML toolkit for candidate assessments and the Big Data Toolkit (HKI).
- **Infrastructure:** Maintained the lab’s high-performance computing resources, network configuration, and security protocols while leading the IT support team.

Lecturer Assistant | Telkom University Oct 2025 – Jul 2026
Data Structures & Object-Oriented Programming

- Prepared lab materials, ran code reviews on weekly assignments, and guided undergraduates through algorithms, data structures, and object-oriented design.

Back-end Developer | CCI Telkom University

Feb 2024 – Feb 2025

- Built server-side logic, **RESTful APIs**, and database integrations, and collaborated with other developers to ship scalable web applications.

ACHIEVEMENTS, PUBLICATIONS & INTELLECTUAL PROPERTY

- **Intellectual Property Rights (HKI)** : Six registered IP rights: Marketing Campaign Manager, Yunas Studio Cashier System, Buluh Cina Village GIS, Batik Cimaragas Website, Karang Taruna Website, and Big Data Toolkit.
- **Publications** : Five research papers (three IEEE, two journals), including first author at IEEE EECSI 2025 (AI-generated image detection with CNNs) and IEEE ICoSEIT 2026 (integrated generative-AI marketing platform).
- **Awards** : Best Presentation, ADIKARA Data Mining (2025); Overall Best Participant, Digital Learning 2024 (MBC Lab); 3rd Place, Front-End Development Competition.

TRAINING & CERTIFICATIONS

- **Fullstack Developer Bootcamp** – Dicoding x DBS Foundation Feb – Jun 2026
- **QA Engineer Bootcamp** – Telkom University Sep – Dec 2025
- **Cloud Computing Bootcamp** – AWS x RE Orbit Academy Jul – Oct 2025
- **AWS Educate: Introduction to Generative AI** – Amazon Web Services Jul 2025
- **Machine Learning Internship** – Prodigy InfoTech Jul – Aug 2025

TECHNICAL SKILLS & COMPETENCIES

- **Programming Languages** : JavaScript, TypeScript, Python, PHP, SQL, HTML5, CSS3, Java, Golang, C++, Bash.
- **Web Development** : Laravel, Node.js, Express.js, RESTful API, React.js, Next.js, Vue.js, Tailwind CSS, Bootstrap, Flutter, Figma.
- **Data & AI** : Machine Learning, Deep Learning (CNN), Pandas, NumPy, scikit-learn, XGBoost, TensorFlow, PyTorch, Hugging Face, OpenCV, LLM, OpenAI API, LangChain, RAG, FastAPI, Flask, Streamlit, Power BI.
- **Databases** : PostgreSQL, MySQL, Redis, SQLite, Firebase, Supabase.
- **DevOps & Cloud** : Docker, Kubernetes, CI/CD (GitHub Actions), Linux, Nginx, Git/GitHub, AWS (EC2, S3, RDS), Google Cloud, Vercel.
- **Testing & Methodology** : Unit Testing (Jest, PHPUnit), Postman, Quality Assurance, Agile/Scrum, Jira, Code Review.
- **Soft Skills** : Communication, Problem-Solving, Analytical Thinking, Team Leadership, Collaboration, Project Management, Adaptability, Mentoring.
- **Languages Spoken** : Native Indonesian & Javanese, Intermediate English (EPrT: 530).

EDUCATION

Telkom University – Bandung, Indonesia

2022 – 2026

- **Bachelor of Information Technology** | 3.92/4.00 GPA (144 Credits) | Summa Cum Laude

SMK Telkom Malang – Malang, Indonesia

2019 – 2022

- **Software Engineering** | 3 Years