



YOGA PRASTYO BAYU LAKSONO

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Surabaya, East Java, Indonesia

Informatics Engineering student specializing in backend and full-stack development (.NET, Laravel, Next.js), with hands-on robotics software experience in C++/ROS.

Education Level

Politeknik Elektronika Negeri Surabaya - Surabaya, Indonesia Aug 2024 - Apr 2028 (Expected)

Bachelor of Informatics Engineering, 3.54/4.00

- Contribute gameplay behavior and inter-robot communication software for EROS humanoid robot soccer.
- Serve as Research Assistant at MSECT PENS, developing IoT healthcare systems with ThingsBoard.
- Taught C++ and ROS fundamentals to 60+ participants as a workshop instructor for EROS Workshop 2025.

SMK Krian 1 Sidoarjo - Sidoarjo, Indonesia Jul 2021 - May 2024

Senior High School, Software Engineering (Rekayasa Perangkat Lunak)

- Developed fullstack POS system using Laravel and Livewire as final project.
- Completed 6-month internship as Web Developer, building a company website from scratch.
- Achieved 2nd and 3rd place in multiple web design and web development competitions.

Work Experiences

TalentHub - Surabaya, Indonesia Apr 2026 - Present

Backend Developer (.NET) & Scrum Master

TalentHub is a mobile-first recruitment platform built through a PENS and Sindika collaboration, connecting candidate job discovery with recruiter vacancy management.

- Implemented authentication, RBAC, and job lifecycle APIs in .NET, supporting 3 user roles with validation, audit logs, and soft deletion.
- Migrated deployment from Azure to Docker-based services on internal PENS infrastructure via CI/CD and GHCR.
- Built and deployed the React landing page introducing TalentHub's recruitment workflow to public visitors.
- Facilitated Scrum ceremonies as Scrum Master, coordinating a 6-person team across backend, mobile, and infrastructure.
- Contributed 4 Flutter features, including job listing, search, filtering, and multi-step vacancy publishing forms.

Posyandu Information System - Surabaya, Indonesia May 2026 - Present

Full Stack Developer

A lecturer-directed information system helping Posyandu cadres manage child growth records, nutrition status, and immunization history.

- Built the NestJS API with Prisma and PostgreSQL, implementing JWT authentication and role-based access for 2 authenticated roles.
- Developed 4 WHO-referenced growth charts tracking weight, height, head circumference, and weight-for-height.
- Designed React workflows across 3 portals for admin, cadre, and public roles, covering child health records.
- Implemented WHO reference-data calculations to keep growth and nutrition assessments accurate and consistent.

EEPIS Robotics Team (EROS) - Surabaya, Indonesia Feb 2026

Frontend Developer – Attendance System

A web-based attendance system built for the EEPIS Robot Soccer team to track member participation and attendance history.

- Built a responsive Next.js frontend tracking attendance for 10+ EROS team members.
- Integrated REST APIs enabling real-time synchronization of attendance records across sessions.
- Improved accessibility and user experience through structured, reusable component design.

Room Booking System - Surabaya, Indonesia Feb 2026

Fullstack Developer

A self-initiated project to practice production-style reservation systems outside coursework.

- Built a fullstack room-booking platform using ASP.NET and Next.js for reservation scheduling.
- Designed 10+ RESTful API endpoints handling booking creation, validation, and conflict checks.
- Structured MySQL/PostgreSQL schemas for scalable, maintainable reservation data management.

Task Management API - Surabaya, Indonesia Mar 2026

Backend Developer

A self-initiated project to practice scalable API architecture patterns outside coursework.

- Developed a hierarchical task management API in Laravel using the Service-Repository pattern.
- Designed nested workspace and task structures supporting up to 3 levels of hierarchy.

- Standardized JSON response formats for consistent, predictable API consumption.

Organisational Experience

EEPIS Robotics Team - Surabaya, Indonesia

Dec 2024 - Present

Robotics Software Engineer – Humanoid Robot Soccer (EROS)

A robotics team representing Politeknik Elektronika Negeri Surabaya in humanoid robot soccer competitions, focusing on intelligent and autonomous robotic systems.

- Developed 4 gameplay behavior components in C++/ROS: keeper strategy, obstacle handling, ball-frame selection, and state-machine-driven skills.
- Improved 2 communication mechanisms, inter-robot messaging and robot-ID selection, for reliable team-state coordination during matches.
- Integrated ROS motion-step services and 3 odometry operations (read, set, correct) between Intelligent and Motion subsystems.
- Represented EROS at 2 exhibitions (PENS × ITE, Berdikari 2025), demonstrating robots to visitors.

MSECT PENS - Surabaya, Indonesia

Oct 2025 - Present

Research Assistant

Research group focusing on IoT-based systems and smart technology development.

- Migrated IoT dashboard integration from Ubidots to ThingsBoard, standardizing tooling across the research group.
- Built ThingsBoard dashboards visualizing real-time data from 8 integrated biomedical sensors.
- Supported backend integration for IoT data processing across 5 measurement modes.

Skills, Achievements & Other Experience

- **Hard Skills:** Programming: C++, Python, JavaScript, TypeScript, C#; Frameworks: Laravel, Livewire, ASP.NET, Next.js, React, NestJS; Backend: REST API, MySQL, PostgreSQL, Prisma; Tools: Docker, Git, Linux, CI/CD; Robotics: ROS (ROS1/ROS2), Finite State Machines.
- **Soft Skills:** Agile methodology (Scrum), team collaboration, problem solving, effective communication, adaptability, and time management.
- **Certifications:** Completed 3 Dicoding courses in Python, C, and AI fundamentals to broaden programming and AI foundations.