

GALANG RYANDANA

SOFTWARE DEVELOPER

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Probolinggo, Indonesia

Software Developer with a Bachelor's degree in Informatics Engineering and hands-on experience building end-to-end web applications. Delivered an event registration portal supporting nearly 2,000 participants with automated QR-based attendance, as well as a machine maintenance management system and a seserahan business management app covering inventory, scheduling, orders, and financial reporting—with a strong focus on workflow efficiency and high performance. Skilled in designing data flows and managing relational databases (MySQL, PostgreSQL, SQLite) with emphasis on query performance and system reliability, and experienced in source control with GitHub. Proficient across modern web stacks (React, [Next.js](#), Hono, Astro, Solid, Apps Script, CodeIgniter) and AI-driven automation, with a proven ability to learn new technologies quickly. Currently targeting Full Stack Software Engineer roles, backed by a 6-month full stack developer bootcamp, active involvement in developer and AI communities, and openness to opportunities anywhere.

Project Experience

Seserahan Rental Business Management Application – Rosabelle Seserahan

Dec, 2025 – Feb, 2026

Full-Stack Web Developer

- Designed and developed a full-stack Progressive Web App (PWA) with a mobile-first interface for rental management, using a monorepo architecture for both frontend and backend, covering order, inventory, finance, and calendar modules.
- Designed a relational database schema with 12+ tables, including query optimization using composite indexes, cursor-based pagination, and batch operation chunking for optimal performance.
- Built a CI/CD pipeline using GitHub Actions with 4 automated workflows: linting, type checking, build, testing, auto-deploy to production and demo environments, plus daily security scanning.
- Implemented a multi-layered security system: JWT authentication with session revocation, CSRF protection, dual-tier rate limiting, file upload validation, and idempotency middleware to prevent data duplication.
- Wrote automated tests (44 test files) covering unit tests for middleware, services, and routes, with code coverage reporting to maintain code quality standards.
- Conducted rental management business requirements analysis and translated them into technical solutions: a reservation token system to prevent double-booking, a state machine for order lifecycle, and automated status updates via scheduled cron jobs.

Supplier Gathering PT PLN NUSANTARA POWER,

Event Registration & Survey System – CV. JETS Organizer

Oct, 2025 – Oct, 2025

Full-Stack Web Developer

- Developed a web-based registration and questionnaire system for the Supplier Gathering event of PT PLN Nusantara Power, serving 389 suppliers from 3 power plant units, featuring multi-step forms, QR code check-in, and auto-generated attendance reports.
- Designed a data architecture using Google Sheets as the database with 7 structured tables, implementing duplicate prevention with LockService to handle race conditions during concurrent submissions.
- Implemented an email queue system with asynchronous processing: sheet-based queuing, batch processing of 90 emails/minute via Resend API, a 3x retry mechanism, and rate limiting to avoid API throttling.
- Implemented a multi-layered security system: JWT authentication with session revocation, CSRF protection, dual-tier rate limiting, file upload validation, and idempotency middleware to prevent data duplication.
- Optimized form submission performance from ~7 seconds to 2–3 seconds using CacheService (server-side, 5-minute TTL), localStorage caching (client-side), batch writes, and debounce on search input.

Trail Run Ranu Segaran 2025 Registration,

Seven Lakes Festival Probolinggo – CV. JETS Organizer

Sep, 2025 – Nov, 2025

Full-Stack Web Developer

- Designed and developed a multi-step (5-stage) online registration system for a trail run event that successfully accommodated 955 participants, featuring 27 participant data fields, per-field validation, and cross-step validation before submission.
- Implemented a serverless backend architecture using Google Apps Script as a REST API and Google Sheets as the database (27 columns), including CRUD operations, data lookup by ID card number (KTP), and auto-generation of unique BIB numbers and payment amounts per registrant.
- Built a payment proof upload feature with file-to-base64 conversion, file type and size validation (max 5MB), and automatic storage to Google Drive using a structured naming convention with public link sharing.
- Developed a state persistence mechanism using localStorage to retain registration data when users refresh or close the browser, with an edit mode that enables data updates without duplication (row matching by KTP).
- Implemented a registration closure system using an environment variable toggle that differentiates access for new users (redirected to a closure page) and registered users (still able to access the payment page).

Probolinggo Bike Vaganza 2025 Registration,

Bank Indonesia Malang – CV. JETS Organizer

Jul, 2025 – Aug, 2025

Full-Stack Web Developer

- Developed a registration website for the Probolinggo Bike Vaganza 2025 event in collaboration with Bank Indonesia, which successfully accommodated 1,945 registrants using a serverless architecture (Google Apps Script + Google Sheets) with a 3-stage flow: personal data registration, QRIS payment, and payment proof upload.
- Implemented a QRIS payment system with unique nominal amounts per registrant (backend auto-increment) to simplify manual payment reconciliation without requiring a payment gateway.
- Built a state management mechanism using localStorage with automatic create/update mode detection, allowing participants to resume the registration process after a browser refresh and edit data without duplicating database entries.
- Implemented a payment proof upload feature with file-to-base64 conversion, format validation (JPG/PNG), size restriction (max 2MB), and automatic storage to Google Drive via Google Apps Script.

Machine Maintenance Management System – PT. Malindo Intitama Raya

Dec, 2023 – Jan, 2025

Full-Stack Web Developer

- Developed an internal web application for machine maintenance management using MVC architecture (CodeIgniter 3 + MySQL), covering 6 main modules: Master Data, Scheduling, Repair, Preventive, Lubrication, and Mold with 14+ relational database tables.
- Designed a MySQL relational database schema with JOIN queries for cross-entity reporting, and implemented date-range and entity-based filters in the reporting module with print-ready output.
- Implemented Role-Based Access Control (RBAC) at the menu level with per-role access rights verification, ensuring secure access based on user functions.
- Built a 3-stage repair workflow system (Pending → In Progress → Completed) to track machine and utility repair status in real-time via a dashboard with status badges.
- Developed a preventive maintenance module with 28+ inspection parameters per machine (oil level, temperature, pressure, RPM, lubrication, etc.), ensuring comprehensive machine condition recording to prevent downtime.

Education

State University of Malang - Malang, Indonesia

2017 - 2023

Bachelor's Degree in Informatics Engineering, 3.66/4.0

- Thesis: Implementation of Decision Tree C4.5 Algorithm for Player Role Classification in DOTA 2 Game.
- Relevant Coursework: Database, Web Development, Software Engineering, Artificial Intelligence.

Training, Courses, and Certifications

Harisenin.com - Jakarta, Indonesia

June, 2025 – Nov,

2025

Full Stack Developer Bootcamp

- Relevant Material: HTML, CSS, JavaScript, Git, React JS and Node.js, Next.js, MySQL
- Certificate: <https://s.id/galangharisenin>

Skills

Technical Skills:

Development: JavaScript, ReactJS, Node.js, Next.js, Astro, Solid, Apps Script, PHP, Codeigniter, MySQL, PostgreSQL

Workflow Automation: n8n

Soft Skills:

Problem Solving, Time Management, Analytical Thinking, and Teamwork

Languages: Indonesian (Native), English (Intermediate)