

# ERLAN IRHAB GHALIB

082116650025 | erlanig221@gmail.com | linkedin.com/in/erlanig | bit.ly/portofolio-erlanig2025

Jakarta, Indonesia

Fresh graduate of Informatics from Diponegoro University with practical experience as a software developer, data analyst, and machine learning enthusiast. Proficient in Python, JavaScript, PHP, and skilled in cloud computing platforms such as GCP and AWS. Strong expertise in backend development, API design, data analysis, and writing efficient queries using SQL databases. Experienced in building scalable, cloud-native solutions and passionate about applying technology to solve complex problems. Eager to contribute technical skills and adaptability within dynamic IT teams.

## Work Experiences

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### PT Bukaka Teknik Utama, Tbk - Bogor, Indonesia

Jul 2025 - Present

#### Management Trainee

- Selected as 1 of 39 Management Trainees out of 23,668 applicants.
- Rolling 1 (Fabrication & Project System Developer): Documented PRO-PMO and PRO-ASMAT, and developed a website with system design, database, and modules for Delivery Orders, SIPB, Packing Lists, and Master Data using Laravel, Tailwind CSS, and MS SQL Server.

### Bank Syariah Indonesia (BSI) - Jakarta, Indonesia

Jun 2025 - Present

#### Performance and Evaluation (Data Analyst) Intern

- Extracted and prepared savings data for ~30 million customers across multiple account types using Microsoft SQL Server and Power BI.
- Analyzed top 10 fund drops per region and area, covering 45 branch areas nationwide, to identify critical trends.
- Utilized Excel functions such as PivotTables, VLOOKUP, HLOOKUP, and IF/IFNA formulas to generate insights and supported planning efforts for the Retail Deposit Solution Group, collaborating with other departments before execution.

### PT Kalbe Farma, Tbk - Jakarta, Indonesia

Sep 2024 - Mar 2025

#### IoT Engineer Intern

- Prototyped a real-time defect detection system using webcams, a thermal camera, and ML models on NVIDIA Jetson Orin Nano for live crack detection on packaging.
- Developed a Python backend with Supabase for database management and image watermarking, automating logging and transfer of approximately 500 defect images to cloud storage.
- Built a PM sensor system with suction pumps and Node-RED for real-time dust monitoring every 10 seconds, cutting operator auger adjustment time by 30% and improving powder consistency.

### Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka - Online

Feb 2024 - Jul 2024

#### Cloud Computing Cohort

- Achieved recognition as a top 10% graduate in the Cloud Computing Learning Path.
- Secured a position among the top 1,000 performers in English Courses & Tests, demonstrating exceptional proficiency and dedication.
- Selected among 4,650 students of the 57,000+ applicants interested in joining the Bangkit Academy Program.
- Controlled and monitored project timelines and budget, ensuring 100% adherence to milestones.

### Diponegoro University Laboratory, Department of Informatics - Semarang, Indonesia

Feb 2024 - Jun 2024

#### Database Management Lab Assistant

- Conducted weekly lab sessions for 20+ students, enhancing their database management skills using Microsoft SQL Server.
- Updated lab curriculum with new technologies and best practices in database management through collaboration with faculty.
- Maintained lab equipment and software installations, ensuring 100% operational efficiency.

### Rejeki Toyota - Cirebon, Indonesia

Jan 2024 - Feb 2024

#### Software Engineer Intern

- Prepared documentation for an Integrated Purchase Request System using Oracle, improving process efficiency by 30%.
- Designed and implemented a database structure and user interface, enhancing user experience for 30+ employees.
- Customized workflows to facilitate validation and approval between systems, reducing processing time by 10%.

## Education Level

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### Diponegoro University - Semarang, Indonesia

Aug 2021 - Jan 2025

#### Undergraduate Informatics, 3.92/4.00

- Achieved a perfect GPA of 4.0 in the first and last two semesters.
- Received Dean Award at Faculty level.

## Organisational Experience

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- Collaborated with 10 board members in decision-making processes.
- Developed Standard Operating Procedures (SOPs) and evaluated 79 members.
- Recognized top-performing staff quarterly and provided feedback to underperforming staff.
- Enhanced performance evaluation accuracy, resulting in improved organizational insights.

- Led and collaborated with 8 board members, contributing to decision-making processes.
- Managed all work programs and agendas, and designed Standard Operating Procedure templates for 1 year.
- Established a college information WhatsApp group for high school students with 160 members.
- Organized the largest talk show in the media and information division, featuring resource persons from "Kampus Mengajar," with 60 participants.

## Skills, Achievements & Other Experience

- **Technical Skills:** GCP, Notion, Postman, Selenium, Docker, Nginx, Laravel, Express Js, HTML, CSS, PHP, JavaScript, Python, MySQL, Supabase, PostgreSQL, Oracle, Microsoft SQL Server, Git, Figma, Canva, Google (Docs, Sheets, and Slides) , and Microsoft Office (Excel, Word, and Power Point).
- **Core Skills:** Interpersonal skills, Teamwork, Leadership, Public speaking, Problem-solving, Creativity, Communication, and Adaptability.
- **Other Skills:** Manual testing, Automated testing, Public relations, Project organizer, Digital marketing, Content creation, Community engagement, Analyze data, and Derive actionable insights.
- **Language:** Indonesian (Native), English (Intermediate).
- **Competition** (2022): Participants in the RIBUTION Business Plan Competition Harisenin.com x Rise Community UB 2022,
- **Training** 🏆 (2022): Kelas Strategi Bisnis Online Angkatan 3 by Tokopedia Digital Entrepreneurship
- **Training** 🏆 (2022): Strategi Pemasaran Bisnis dan Optimalisasi Produk by Digital Entrepreneurship Academy
- **Certificate** 🏆 (2024): Bangkit Spezializing in Cloud Computing with Distinction
- **Certificate** 🏆 (2024): ACA Cloud Computing Certification by Alibaba Cloud.
- **Certificate** 🏆 (2024): Belajar Membuat Aplikasi Back-End untuk Pemula dengan Google Cloud by Dicoding Indonesia.
- **Certificate** 🏆 (2024): Database Programming with PL/SQL
- **Projects** (2023): Analyzing Graduation Patterns of Students at the Faculty of Science and Mathematics, Diponegoro University, from 2012-2019 Using the CRISP-DM Methodology.
- **Projects** 🏆 (2023) : Developed and tested the Informatics Student Monitoring System Department Level Monitoring Website utilizing Laravel framework.
- **Projects** (2023): Analyzing Graduation Patterns of Students at the Faculty of Science and Mathematics, Diponegoro University, from 2012-2019 Using the CRISP-DM Methodology
- **Projects** 🏆 (2024): Developed and tested the backend API for Tanamify, a machine learning-based crop optimization app, while managing the project to ensure timely delivery and alignment with stakeholder goals.
- **Projects** 🏆 (2024): Developed a backend system for student IRS verification web application using Express.js and PostgreSQL, containerized with Docker, implemented Nginx as a load balancer, performed API testing with Postman and integration testing to ensure system reliability, and deployed the application on Google Compute Engine.
- **Projects** (2024): Developed, integrated, and thoroughly tested a Purchase Request Management Information System with PT Rejeki Toyota's E-Budget System, utilizing PHP native for development and integrating Jaspersoft Studio for reporting capabilities.
- **Projects** (2025): Designed and prototyped a real-time crack detection system for milk powder packaging using 2 webcams, thermal imaging, and ML models on NVIDIA Jetson Orin Nano; developed a Python backend with Supabase integration for sensor data processing, watermarking, and automated image transfer to cloud storage for traceability.
- **Projects** (2025): Designed a secure AWS architecture by implementing S3 within a VPC, eliminating the need for NAT gateways by using VPC endpoints for direct and private access; additionally set up CloudWatch monitoring for all instances to ensure performance and security compliance.