

SHINTA NURROHMAH

Backend Developer | Quality Assurance

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SUMMARY

Computer Engineering graduate from Universitas Diponegoro with hands-on experience in backend development, fullstack web development, and software quality assurance. Skilled in building REST APIs, designing database schemas, and testing application behavior through manual and API testing workflows. Experienced as a Data Analyst Intern and Laboratory Assistant, with a strong foundation in problem-solving and collaborative work environments.

EDUCATION

Universitas Diponegoro Semarang, Jawa Tengah
S1 Teknik Komputer — IPK: 3.71 / 4.00 2021 – 2025

WORK EXPERIENCE

Suara Merdeka Network Semarang, Jawa Tengah
Data Analyst Intern 2024

- Explored Google Analytics regularly to monitor content trends and understand how visitors interacted with articles on the website.
- Analyzed traffic data to identify which topics and articles were gaining traction, and which ones were underperforming based on views and engagement.
- Exported and processed analytics data in Microsoft Excel to organize findings and make it easier to spot patterns across different time periods.
- Compiled weekly reports summarizing content performance and shared the results directly with mentors as part of routine reporting.
- Gave content recommendations to the editorial team based on topics that were currently trending or generating high traffic.

Bangkit Academy 2024 II Semarang, Jawa Tengah
Mobile Development Learning Path 2024

- Completed an intensive 6-month program by Google, GoTo, and Traveloka focused on Android mobile development using Kotlin.
- Developed NutriTrack, a capstone Android application for daily food tracking and nutrition monitoring, as part of a cross-functional team with ML and Cloud Engineering tracks.
- Built the mobile app using Kotlin with MVVM architecture, integrated Firebase Firestore for data storage, and Firebase Auth for user authentication.
- Collaborated remotely with team members across different specializations to deliver a fully functional product within a defined timeline.
- Completed structured learning paths covering Android fundamentals, UI/UX best practices, API integration, and software development workflows.

Laboratorium Teknik Komputer, Undip Semarang, Jawa Tengah
Laboratory Assistant 2022 & 2024

Basic Computer & Programming (OOP — Java, C++)

- Assisted in delivering lab sessions for a foundational programming course focused on Object-Oriented Programming concepts using Java and C++.
- Helped students debug syntax and logical errors during sessions and reviewed assignments, giving feedback to reinforce understanding of core programming concepts.
- Guided students through weekly exercises covering classes, objects, inheritance, and control flow, explaining concepts rather than just giving answers.

Mobile Application Development (Android — Java, Android Studio)

- Mentored students in building Android applications using Java and Android Studio, covering topics like activity lifecycle, UI components, intents, and basic data handling.
- Supported students in troubleshooting runtime errors and logical bugs during lab sessions and take-home assignments.

- Reviewed student project submissions and provided hands-on technical guidance to improve code structure and problem-solving approach.
- Coordinated with the supervising lecturer on module schedules, session preparation, and assessment criteria each semester.

Himaskom (Himpunan Mahasiswa Teknik Komputer)

Semarang, Jawa Tengah

Library Coordinator

2022-2023

- Coordinated a team of fellow students to manage library shift schedules and distribute tasks for book data entry and labeling.
- Designed and maintained Microsoft Excel spreadsheets to support book cataloging, labeling, and inventory tracking workflows.
- Ensured library data was consistently updated and organized, making collections easier to manage and access for members.

PROJECTS

SIMP – Laboratory Management System

Tech: React, Node.js, Express.js, MySQL, Postman

- Built a laboratory management platform used for attendance tracking, grading, integrated learning modules, and complaint handling between students and teaching assistants.
- Focused on backend development, implementing a role-based access control system for three user roles (Admin, Student, Teaching Assistant), each with different access levels and privileges.
- Developed the authentication system and managed session handling to ensure secure.
- Performed functional testing using Katalon Studio to validate main feature workflows from the user side.
- Ran code quality analysis with SonarQube to improve security, maintainability, and detect duplicate code before deployment.

GitHub: github.com/shintanr/simp-laboratory-system

SiWarga – Resident Information System

Tech: React, Express.js, MySQL

- Built a fullstack resident administration system to manage citizen data, document uploads, and administrative workflows in a more organized way.
- Developed backend REST API with Node.js and Express.js covering authentication, authorization, and full CRUD operations for resident and family card (KK) data.
- Implemented file upload functionality for residents to submit family card documents directly through the system.
- Integrated the backend API with a React frontend using Axios, and built a responsive UI with Tailwind CSS.
- Tested all API endpoints using Postman to validate request/response behavior and ensure the system worked correctly end-to-end.

GitHub: github.com/shintanr/SiWarga-backend

NutriTrack – Android Nutrition App

Tech: Kotlin, Android, Firebase

- Developed the Android mobile app as part of a 7-person cross-functional Bangkit Academy capstone team (C241-PS203), collaborating with Machine Learning and Cloud Computing tracks.
- Responsible for the Mobile Development side — built the app using Kotlin, covering UI implementation, activity flow, and integration with backend APIs provided by the Cloud team.
- Implemented user authentication with register and login flow using personal email and password.
- Integrated personalized nutrition plan features, where users input personal health data and receive tailored meal suggestions and nutritional information based on ML model outputs.
- Built the daily calorie tracking interface, allowing users to log meals and monitor their nutritional intake in real time.

GitHub: github.com/shintanr/NutriTrack

SKILLS

Backend Development: Node.js, Express.js, REST API, JWT, MySQL

Quality Assurance: Manual Testing, Postman, API Testing, UAT, Bug Report

Frontend Integration: React, Axios, Tailwind CSS, HTML, CSS, JavaScript

Mobile Development: Kotlin, Android

Data & Tools: Data Analysis, Microsoft Excel, Power Query, Git, GitHub