

# RESTU FIRMANSYAH

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## PROFILE

A fresh graduate in Informatics Engineering from Telkom University, completing the program in 3.5 years with a GPA of 3.68. I merge technical discipline with strategic business acumen. Specialize in the intersection of Software Engineering and Data Science. With a strong command of Full-Stack technologies (React, Node.js) and Data Analytics (Python, SQL, Tableau), I don't just build applications; I engineer intelligent systems. My active involvement in capital markets allows me to apply these skills in high-stakes environments, using machine learning to drive investment strategies. I am positioned to deliver immediate value: combining the technical depth of an engineer with the analytical precision of a data scientist and the strategic foresight of an investor.

## EXPERIENCE

### KOMINFO BANYUMAS-INTERSHIP

JUNY 2025 – AUG 2025

- **[FULL-STACK DATA SCIENTIST INTERN: BANYUMAS POLICY INTEL (AI-POWERED POLICY SIMULATION)]:** Developed an AI-powered policy simulation platform using TypeScript, React.js, and Tailwind CSS to enable government officials to visualize regional data and assess policy impacts effectively. Integrated Google Gemini AI for real-time, context-aware analysis and predictive insights across health, education, and economic sectors. Designed and implemented interactive geospatial components with Leaflet and dynamic visualizations using Chart.js to track regional performance indicators. Built a scenario comparison module that allows stakeholders to evaluate multiple policy strategies simultaneously, enhancing data-driven decision-making and strategic planning.
- **[Front-End Developer Intern – Department of APTIKA]:** I served as a Front-End Developer under the APTIKA Division, collaborating with BKPSDM Banyumas to develop the Jatilan Ngapak Banyumas Learning Management System (LMS). A digital learning platform designed for civil servants (ASN) in Banyumas. My main responsibilities focused on designing the user interface, including layout structuring, implementing clean and readable typography, and ensuring a simple yet professional visual experience aligned with government design standards. The project was successfully completed within three months, officially inaugurated and recognized by the Banyumas Regency Government for its innovation and usability.

### FINAL PROJECT: FULL-STACK WEB DEVELOPMENT FOR EMPLOYEE MANAGEMENT SYSTEM

OCT 2024 – DES 2024

#### [ SOFTWARE IMPLEMENTATION AND TESTING COURSE ]

- Developed an Employee Management System to streamline employee data management as part of the Software Implementation and Testing course. The project involved designing and implementing a full-stack web application using Node.js and Express.js for the back-end, with a MySQL database to manage employee records. The front end was built with HTML, CSS, and Tailwind CSS, ensuring a responsive and user-friendly interface. Rigorous testing was conducted to ensure functionality, reliability, and optimized performance. Completed within 2 months, the system featured real-time data management capabilities and enhanced administrative efficiency, demonstrating proficiency in modern web development frameworks.

## HEAD OF EXTERNAL DEPARTMENT

### [ HIMPUNAN PENGUSAHA MUDA (HIPMI) PT ]

#### TELKOM UNIVERSITY

Dec 2024 - Dec 2025

- Led the External Department to establish collaborations with local entrepreneurs, SMEs, and the HIPMI BPC Banyumas chapter, strengthening the connection between student entrepreneurs and the regional business community. Organized entrepreneurship workshops and networking sessions that brought together members, alumni entrepreneurs, and local business owners. Actively coordinated joint programs and mentoring initiatives with HIPMI BPC Banyumas to support student business development and increase organizational visibility within the local entrepreneurial ecosystem. Established partnerships with 8+ local businesses and startups to support student-led ventures and internship opportunities. Organized business networking events and entrepreneurship seminars attended by over 200 participants.

### PERMIRA INSTITUTION PRESIDENT BEM IT TELKOM

#### [ COORDINATOR IT DIVISION KOMINFO ]

#### TELKOM UNIVERSITY

Oct 2022 - Dec 2022

- In my role as IT Coordinator for PEMIRA, I effectively directed staff responsibilities and fostered a unified team environment. Key achievements include accurately entering data for 4,876 students within 3 weeks, maintaining 100% candidate information accuracy in the website e-voting system SIBALLU, managing IT infrastructure with zero downtime, implementing robust backup protocols, optimizing the system for a sub-1-minute response time, delivering reports promptly, conducting effective training sessions, mitigating risks, providing 24/7 support, and completing thorough evaluations within 30 days, setting new standards for future elections. and Successfully increased voter turnout by 5% and improved election efficiency.

## HARD SKILL

- **Data Analyst & Science: SQL, Python, Excel, Tableau, Machine Learning, Jupyter Notebook, Google Colab.** Entry-level data scientist with hands-on experience in leveraging tools and technologies for data analysis, visualization, and machine learning. Proficient in SQL, Python, and Excel for data manipulation and analysis. Skilled in creating insightful dashboards and visualizations using Tableau. Knowledgeable in building and deploying machine learning models using Jupyter Notebook, Google Colab. Enthusiastic about turning data into actionable insights and contributing to data-driven decision-making processes.
- **Full-Stack Web Development: JavaScript, PHP, React, Node.js, Express.js, Laravel, Streamlite MySQL, PostgreSQL, Laragon, HTML5, Bootstrap, Tailwind.** Proficient in building both the front end and back end of web applications using technologies such as JavaScript, React, Node.js, and Express.js. Capabilities include designing and implementing interactive user interfaces, creating responsive web designs, and ensuring cross-browser compatibility on the front end. On the backend, experienced in developing server-side logic, managing databases, and integrating APIs to bridge frontend and backend functionality. Skilled in end-to-end application development, debugging, and optimizing performance for scalable and efficient web solutions.

## EDUCATION

### Telkom University, Purwokerto

Informatic Engineering (Latest GPA=3.68)

Sep 2022 – Jan 2026