

Rifaldi Faturrochman

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[Portfolio](#)

SUMMARY

A detail-oriented Software Engineering graduate with hands-on experience as a Project Lead, System Analyst, Software Engineer, and Machine Learning Engineer across diverse software projects. Possesses a strong foundation in the software development life cycle and data-driven problem solving, combined with collaboration and leadership skills. Passionate about leveraging expertise to deliver impactful solutions, contribute to organizational growth, and continuously develop professionally.

EDUCATION

Politeknik Enjinering Indorama

Purwakarta, West Java

Bachelor of Applied Computer Science in Software Engineering Technology Major (S.Tr.Kom)

2022 - 2025

- **GPA :** 3.90 / 4.0
- **Achievement:** Research Grant Awardee — *Stunting Detection Project funded by the Ministry of Higher Education, Science, and Technology.*
- **Relevant Coursework :** Software Analysis & Design, Object Oriented Programming, Software Project Management, Enterprise Resource Planning, Technopreneur, Web Programming, Desktop Programming, and Data Mining.

EXPERIENCE

Ministry of Higher Education, Science, and Technology

Central Jakarta, DKI Jakarta

System Analyst Intern

Sep 2024 – Jan 2025

- Led a technical team of six members in designing and developing the SISTER Modul Sarpras and SISARPRAS systems.
- Conducted requirement gathering and developed key documentation including BRD, PRD, and SRS to ensure clarity and alignment between stakeholders and developers.
- Outlined existing business processes in BPMN to ensure alignment with system development.
- Designed UML-based system architecture and delivered a functional system aligned with specifications.
- Coordinated User Acceptance Testing (UAT) with stakeholders to validate functionality, usability, and compliance.
- Managed system development using the Scrum methodology for efficient project execution.

Bangkit Academy led by Google, GoTo, and Traveloka

Indonesia

Machine Learning Cohort

Feb 2024 – July 2024

- Completed a comprehensive machine learning curriculum from basic to advanced using TensorFlow, accompanied by soft skills and English skills training.
- Led a team as the project lead for the capstone project, overseeing the development of a deep learning model that achieved 93% accuracy for the given dataset.
- Designed and analyzed problems, and determined the Minimum Viable Product (MVP) for the project.
- Collaborated with team members to create a project focused on food detection for preventing stunting during pregnancy.
- Completed the program with Distinction, as one of the top 10% of graduates.

Compunova

Purwakarta, West Java

Project Lead & Fullstack Developer

Mar 2023 – Present

- Led a team of 4 members in project development, creating timelines and principles to ensure projects are delivered on time and meet user requirements.
- Conducted user interviews to gather requirements, ensuring a clear understanding of project needs.
- Design systems using UML standards for MVC application models, along with SRS following IEEE standards, and develop ERD designs for databases to ensure compatibility and efficiency.
- Developed backend functions for a web application, primarily using Laravel framework.

ORGANIZATIONAL EXPERIENCE

Software Engineering Student Association

Purwakarta, West Java

Head of Research and Development

Oct 2023 – Oct 2024

- Designed and collaborated to create 3 flagship programs focusing on community research and development within the internal environment (Study Program).
- Initiated and designed a community program called ByteBreaks as a platform for sharing and asking questions among members on the Discord platform.

- Led and organized a UI/UX design workshop at SMKN 2 Purwakarta, engaging around 50 vocational high school students as the event's chief organizer.
- Developed and implemented a structured mentoring program to prepare students for IT competitions.

English & Techno Camp PEI

Purwakarta, West Java

Aug 2023

Field Coordinator

- Composed the layout for events at PT. Indo-Rama Synthetics Tbk.
- Organized and guided 200 participants on-site to the event venue.

Journalist Student Activity Unit

Purwakarta, West Java

July 2023 – Nov 2024

Staff of Human Resources and Development

- Collaborated and developed a program in order to develop journalism knowledge for the general public.
- Enhanced members' expertise in journalistic aspects.

PROJECTS

Stunting Detection Application with Early Intervention

Purwakarta, West Java

Aug 2025 – Present

Project Lead, Machine Learning Engineer, and Backend Developer

- Secured research funding from the Ministry of Higher Education, Science, and Technology (2025 Batch 2) with a collaborative team of lecturers and students.
- Led a 2-member technical team, establishing project timelines with an agile framework (Scrum), designing system architecture, and coordinating closely with the principal researcher.
- Developed a machine learning classification model for stunting detection using real-world datasets to support health research initiatives.
- Designed and implemented backend services to integrate with the mobile application, ensuring scalable and reliable system performance.

DeLuSi (Deteksi Kelulusan Mahasiswa)

Purwakarta, West Java

Mei 2025 – July 2025

Researcher, Machine Learning Engineer, and Full-stack Developer

- Conducted a thesis research project focusing on student graduation prediction with a case study at the campus level.
- Built a machine learning model using real-world datasets, following the CRISP-DM methodology, achieving 92% accuracy with the Random Forest algorithm.
- Developed and deployed a machine learning API on cloud services for seamless integration with web-based systems.
- Designed and implemented a web-based application for student graduation prediction using the Rapid Application Development (RAD) methodology, equipped with early intervention and parent notification features.

ASING! (Awat Stunting!)

Bandung, West Java

May 2024 – June 2024

Project Lead & Machine Learning Engineer

- Led the development of a mobile application aimed at preventing stunting during pregnancy by providing nutritional guidance.
- Implemented a food classification model using TensorFlow and Transfer Learning, achieving 94% accuracy.
- Collaborated with a team to integrate image capture, food suitability prediction, and nutritional content analysis features.
- Managed project timelines and coordinated tasks using the Scrum framework to ensure timely and efficient delivery.

SIMBARA (Sistem Peminjaman Barang & Ruangan TRPL)

Purwakarta, West Java

Feb 2024

System Analyst & Full-stack Developer

- Designed the system using UML and ERD diagrams to ensure a clear and structured architecture.
- Designed user interfaces and implemented them into functional front-end components.
- Developed the back-end using Laravel, ensuring seamless integration with the front-end and robust system functionality.

SKILLS, COURSES & LANGUAGES

Technical Skills: Python, Machine Learning, UML, Business Process, Database (SQL), Git, Object Oriented Programming, System Design, SDLC, MVC, PHP, Laravel, Java, JavaScript (Node, Next, React), API, Postman, Software Methodology(Waterfall, Agile, Scrum), Microsoft Office, Google Workspace, Project Management Tools (Trello).

Soft Skills: Problem-Solving, Critical Thinking, Growth Mindset, Analytical Thinking, Leadership, Attention to Detail, Project & Time Management, Communication, Team Collaboration, Adaptability, Resilience.

Courses: Crash Course on Python (Google), Machine Learning Specialization (DeepLearning.AI, Coursera, Stanford CPD, UVM), DeepLearning.AI Tensorflow Developer (DeepLearning.AI), Belajar Data Analysis Dengan Python (Dicoding), English for Business Communication (The British Institute), Full-stack Programming (JIDA).

Languages: Bahasa Indonesia (Native/Mother Tongue), English (Intermediate).