Rifialdi Faturrochman

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SUMMARY

A detail-oriented Software Engineering graduate with hands-on experience in various roles 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 capabilities 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, Software Project Management, Enterprise Resource Planning, Web Programming, Technopreneur, and Data Analysis (Machine Learning).

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**
Field Coordinator   Aug 2023
- 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**
Staff of Human Resources and Development   July 2023 – Nov 2024
- 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**
Project Lead, Machine Learning Engineer, and Backend Developer   Aug 2025 – Present
- 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**
Researcher, Machine Learning Engineer, and Full-stack Developer   Mei 2025 – July 2025
- 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! (Awas Stunting!)   **Bandung, West Java**
Project Lead & Machine Learning Engineer   May 2024 – June 2024
- 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**
System Analyst & Full-stack Developer   Feb 2024
- 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: Business Process Analysis, Product Management, Research & Development, Python, Machine Learning, UML, Data Analysis, Database (SQL), Git, SDLC, MVC, PHP (Laravel), Java, API, Project Methodology(Waterfall, Agile), 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), TensorFlow: Advanced Techniques (DeepLearning.AI), Mathematics for Machine Learning and Data Science Specialization (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).