

BINTANG SYAFRIAN RIZAL

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Semarang, Indonesia

Bachelor of Computer Science at Universitas Diponegoro with a strong interest in Software Development and Machine Learning. Proficient in Python, PHP, JavaScript and TypeScript, with hands-on experience in full-stack web development and network management. Demonstrated strong problem-solving skills through programming certifications and practical experience as a Laboratory Assistant and Full Stack Developer Intern.

WORK EXPERIENCES

PT. Usaha Gedung Mandiri - Jakarta, Indonesia

Jan 2025 - Feb 2025

Fullstack Developer Intern

- Engineered "Rumeet", an automated meeting room booking system that optimized resource allocation for 50+ employees, reducing scheduling conflicts and manual coordination time.
- Developed "SiPP", a centralized procurement management system that enhanced financial transparency and accelerated the purchasing approval process by simplifying complex workflows.
- Built web applications using the Laravel framework within a high-pressure 1-month deadline while ensuring a scalable architecture and easy to maintain website for internal corporate operations.
- Collaborated in a 4-member Agile team, utilizing Git for version control to maintain 100% code integrity during rapid deployment cycles.

Universitas Diponegoro - Semarang, Indonesia

Sep 2024 - Dec 2024

Data Structures Laboratory Teaching Assistant

- Conducting tutorial sessions and hands-on programming workshops to enhance understanding of key concepts, such as linked lists, trees, graphs, and algorithms.
- Assisting the instructor in preparing course materials, including problem sets, slides, and coding exercises.
- Providing individualized guidance to students during office hours, addressing their questions and fostering problem-solving skills.
- Grading assignments and projects, ensuring consistency and providing constructive feedback for improvement.

Universitas Diponegoro - Semarang, Indonesia

Feb 2024 - May 2024

Teaching Assistant for PAIK6402 Computer Networking Laboratory

- Provided students with technical support and personalized guidance to help them understand the basics of computer networking using Cisco Packet Tracer software to visualize network protocols.

EDUCATION LEVEL

Universitas Diponegoro - Semarang, Indonesia

Aug 2022 - Jun 2026

Bachelor of Computer Science, 3.65/4.00

Activities and societies: GESIT Volunteer for BEM LH UNDIP, Liaison Officer for the International Conference on Informatics and Computational Sciences 2024, Teaching Assistant for Computer Network Lab and Data Structure Lab

Thesis: Extractive Text Summarization Using Large Language Models for Indonesian Palm Oil Regulatory Documents Through an Analysis of Prompting Strategies and Multi-Metric Evaluation

ORGANISATIONAL EXPERIENCE

GESIT BEM Lingkungan Hidup UNDIP - Semarang, Indonesia

Oct 2022

Volunteer

- Partnered with Perhutani BKPH Semarang Unit 1 on a reforestation initiative, planting trees and leading cleanup efforts to restore the surrounding forest area.

ICICoS 2024 - Semarang, Indonesia

Jul 2024

Liaison Officer

- Served as a Liaison Officer during the International Conference on Informatics and Computational Sciences (ICICoS), organized by Diponegoro University in collaboration with IEEE Indonesia Section.
- Facilitated effective communication between international speakers, participants, and the organizing committee, ensuring smooth event operations and a professional experience.

PROJECTS

Rumeet - Corporate Room Booking System | Laravel, PHP, MySQL

- Developed a specialized room booking system to streamline scheduling and optimize resource allocation for 50+ employees during internship at PT Usaha Gedung Mandiri.

SiPP - Procurement Management System | Laravel, PHP, MySQL

- Engineered a procurement system to enhance financial transparency and accelerate procurement approval workflows.

Helmet Detection System | Python, YOLO, Streamlit

- Implemented a computer vision project using the YOLOv11 algorithm to detect helmet usage among motorcyclists in real-time.

LexPalm - Legal Extractive Summarization for Indonesian Palm Regulation | *Python, Streamlit, LLM*

- Designed structured prompting strategies with legal domain knowledge to improve LLM-based extractive summarization for 157 Indonesian palm oil regulation documents, and developed a public-facing Streamlit web application for interactive access to the system.

Financipal - Personal Finance Tracker | *Next.js, ShadCn, Prisma*

- Built a comprehensive personal finance tracking application featuring advanced data analytics and a modern user interface.

Happiness Report Analysis | *Python, Streamlit, Pandas*

- Conducted data analysis on the World Happiness Report using K-Means clustering to identify global happiness patterns.

Pangan.id - Staple Food Price Tracker Across 38 Indonesian Provinces | *Next.js, PostgreSQL, React19, TypeScript*

- Developed a mobile-compatible dashboard for tracking staple food prices across all 38 Indonesian provinces using official Bank Indonesia PIHPS data.

E-Tarteel - Quran Recitation App | *Next.js, RadixUI, Tailwind*

- Created a modern web-based Quran application focused on delivering a minimalist UI and seamless reading experience.

Twentyfour - Retro Arcade Card Game | *HTML5, Firebase, JavaScript*

- Engineered a multiplayer retro arcade card game featuring real-time synchronization using Firebase.

SKILLS

Languages: Python, JavaScript, TypeScript, PHP, SQL

Frontend: React, Next.js, Vite.js, Tailwind CSS

Backend: Laravel, Node.js, Prisma

Data & ML: Pandas, NumPy, PyTorch, Streamlit

Tools & Infra: MySQL, PostgreSQL, Git, GitHub, Docker, Linux, AWS

CERTIFICATIONS

- AWS Academy Graduate - Cloud Foundations
- AWS Academy Graduate - Machine Learning Foundations
- AWS Certified AI Practitioner (AIF-C01) - Practice Exam
- AWS Solutions Architect – Associate (SAA-C03) - Practice Exam
- AWS Certified Cloud Practitioner (CLF-C02) - Practice Exam
- Alibaba Cloud Certification (2024)
- Oracle Academy - Database Programming with SQL & Database Design (2024)
- HackerRank - Software Engineer Intern, Problem Solving (Intermediate), SQL (Basic), Python (Basic)
- Dicoding - Pemrograman dengan Java, Pemrograman dengan C
- ICP HUB - Web3 ICP Smart Contract (2024)