



HERNA RUSDIYANA

Bogor, 16967 | +62 851-7121-7022

hernarusdiyana704@gmail.com

www.linkedin.com/in/hernarusdiyana

<https://www.hernarusdiyana.com/>

EXECUTIVE SUMMARY

Full-Stack Software Engineer with 2+ years of experience building internal tools, automation systems, and web applications for operational and business needs. Experienced in developing end-to-end solutions, from system analysis and design to implementation, API integration, deployment, and maintenance. Proficient in Python, ReactJs, NextJs, Laravel, full-stack development, with hands-on experience working with MySQL, MongoDB, and NoSQL databases to build efficient and reliable applications. Skilled in integrating third-party and internal APIs, developing data-driven systems, and improving workflows to increase operational efficiency. Also experienced in data analytics and visualization to support reporting and business decision-making. Passionate about building practical, scalable, and maintainable systems that solve real operational problems and deliver business value.

EDUCATION

Bina Insani University – Bekasi, Indonesia

October 2020 – August 2024

Bachelor of Computer Science, Major in Information Systems - Cumulative GPA : 3.70/4.00

- 2023 | Asean Data Science Explorer
Analyzing big data using SAP Software and Python, develop dashboard and analysis reports
- 2023 | GEMASTIK (KEMDIKBUD)
Data Mining Competition applying data mining technology in determining food production strategies
- 2022 | FIND IT (UGM)
Entered in Data Analytics Competition to analyse data to create a machine learning best mode
- 2022 | IN4MATICS CREATIVITY (Yasri University)
Designing UI/UX for travel WebApp in UI/UX Design Competition
- 2022 | Hackaton
Create an innovative mobile app that tracks user habits to increase environmental awareness

SMK Al-Bahri – Bekasi, Indonesia

July 2017 – July 2020

Major in Computer and Network Engineering

WORK EXPERIENCES

PT. PATCO ELEKTRONIK TEKNOLOGI – Cikarang, Indonesia

Full-Stack Software Engineer

August 2024 – Now

- Built and maintained internal web applications used for managing operational workflows, improving efficiency and reducing manual intervention.
- Owned features end-to-end: translated business needs into technical solutions, implemented systems, and iterated based on user feedback.
- Designed and developed RESTful APIs and backend services using FastAPI/Django, improving response time by 40% through optimized queries and caching
- Designed and implemented real-time transaction systems, ensuring data consistency and reliability across frontend and backend services.
- Automated repetitive processes and data handling workflows, reducing manual workload and minimizing human error.
- Collaborated closely with product and stakeholders to solve real-world operational problems and simplify complex processes into intuitive tools.
- Develop a system/service that automatically collects function test result data from 220 PCs and stores it in a database in real time using Redis and Celery in production.
- Improved frontend performance (Next.js/React) using code-splitting, lazy loading, and efficient state management.
- Implemented testing and monitoring practices to ensure system reliability in production environments.

- Managed deployment workflows using Git and Docker, enabling faster and more reliable releases.

Afrin Sinergy Consulting – Jakarta, Indonesia

Data Gathering & Analysis (Part-Time)

October 2023 – March 2024

- Conducted business requirement analysis through stakeholder interviews to identify operational bottlenecks
- Improved operational workflows by analyzing processes and proposing data-driven solutions
- Developed and updated SOPs to enhance efficiency, consistency, and compliance
- Ensured data quality and governance practices in business processes

PT Elnusa Tbk. – Jakarta, Indonesia

Data Scientist (Intern)

October 2023 – January 2024

- Developed several algorithms or machine learning models to provide price predictions such as SVM, XGBoost, Artificial Neural Network, and several Supervised and Unsupervised learning algorithms to solve problems by automating work
- Build a price recommendation system with statistics and python that is integrated with the website in the SCM process for cost-effective changes to procedures and strategies of purchasing request
- Build a web applications that are integrated with Machine Learning / AI models that have been developed with ReactJs, FastAPI, and MongoDB.
- Develop interactive data dashboards to visualize data and provide insights to stakeholders using Power BI
- Clean, validate, and extract large volumes of data, improving data quality and accuracy

PERSONAL PROJECTS

Smart Financial Assistant (MrMony)

- Architected and launched MrMony, an AI-integrated personal finance assistant focuses not only on automatic expense tracking and financial analysis but also budgeting and financial advice
- Developed cross-platform mobile solutions with React Native/Expo, implementing a modular architecture for the dashboard and transaction modules.
- Developed high-performance backend services using Python and FastAPI, facilitating low-latency communication between the mobile client and the database.
- Optimized SQL database schemas to support complex financial queries, improving data integrity and reporting accuracy.
- Managed the full software development lifecycle (SDLC), from initial system design to deployment and post-launch maintenance.

AI-Powered Email Operating System (Emilo)

- Built an AI-powered email automation tool using Next.js, FastAPI, and LLM integration
- Automated email classification, summarization, and response generation to reduce manual effort
- Designed asynchronous processing workflows for handling large volumes of data
- Focused on improving productivity and decision-making workflows

CERTIFICATIES

Certification – Data Visualization

May 2023

Kaggle

- Capable of cleaning large data data and determine graphs that fit the data
- Data Visualization using matplotlib dan seaborn

Certification – Machine Learning

May 2023

Kaggle

- Understand how models or algorithms work and develop best machine learning models
- Able to do Exploratory Data Analytics (EDA)
- Model validation to measure model performance so that tests and comparisons can be carried out
- Tuning hyper parameters to overcome underfitting and overfitting

Training & Certification – Bina Insani University Junior Web Developer

July 2022

Vocational School Graduate Academy

- Develop a website with a neat organization
- Write code with principles according to guidelines and best practices

Certification – Python Programming

July 2021

Dicoding

- Understand Object oriented programming (OOP) methods
- Unit testing
- Implementing python library such as TensorFlow, Keras, Scikit-Learn, PyTorch, and other libraries

Certification – Basic Data Visualization

July 2021

Dicoding

- Cleaning and pre-processing data before visualization
- Transformation of data into visuals

SKILLS

Soft Skill : Critical Thinking, Problem Solving, Analytics

Hard Skill : Python (Django/Flask/FastAPI), JavaScript, TypeScript (React, NextJs), PHP (Laravel, CodeIgniter), Docker, Rest APIs, Git, CI/CD, System Design, Database Management, SQL (MySQL, SQL Server, PostgreSQL), NoSQL (MongoDB, Firebase), API Integration, Workflow Automation, Data Processing, Data Analytics, LLM Integration, and Machine Learning.

LANGUAGES

Bahasa Indonesia

Native

English

Intermediate