

NATHANIEL STEAVE HARJANTO

IT Enthusiast

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SUMMARY

Final semester Informatics student at Sebelas Maret University with strong foundations in software engineering, machine learning, and code quality analysis. Experienced in building full-stack web applications and data-driven solutions using Python, Laravel (PHP), Java, and JavaScript. Passionate about improving AI coding capabilities through evaluating and refining AI generated code, performing meticulous code reviews, bug detection, and applying software engineering best practices. Proven ability in full software development lifecycle, debugging, and delivering high-quality, reliable code and eager to contribute to improving AI systems through programming expertise and analytical thinking.

EDUCATION

Sebelas Maret University

Surakarta, Indonesia

Bachelor of Informatics

2022 - Present

- GPA: 3.52 / 4.00
- Relevant Courses: Artificial Intelligence, Machine Learning, Data Mining, Data Structures & Algorithms, Programming Concepts, Databases, Web Programming.

WORK EXPERIENCE

State Vocational High School 4 Klaten

Klaten, Indonesia

IT Intern

February – April 2025

- Developed a full-stack web-based attendance system with geolocation features using Laravel (PHP), Blade templates, MySQL, and REST API.
- Managed the entire software development lifecycle: requirements analysis, coding, code review, debugging, testing, and deployment.
- Digitized manual attendance processes, significantly improving data accuracy and administrative efficiency.
- Applied software design principles and best practices to ensure reliability and maintainability.

Kampus Merdeka Independent Study, Startup Campus - Online

Jakarta, Indonesia

Data Science

September - December 2024

- Created project data science focused on data analysis and machine learning, including CO₂ emissions prediction in Spain and developing predictive models using Random Forest Regression in order solutions for sustainability.
- Conducted data preprocessing, feature engineering, and model evaluation.
- Created interactive data visualization which contains insightful information about green economic transformation in Spain.
- Be a presenter in the presentation for the final project at the Selection to Showcase, presenting about Predictive Analysis of CO₂ Emissions in Spain.
- Participate in training and project collaboration with other participants as a team.

PROJECTS

AI Code Reviewer

(2026 – Personal Project)

[Github](#)

- Developed a client-server application for deep Python code inspection and evaluation using Groq API (Llama 3.1) combined with static analysis.

- Capable of detecting logical bugs, performance bottlenecks, code style violations, and providing automated improvement suggestions.
- Built with FastAPI (backend) and Vanilla JavaScript (frontend).
- Directly demonstrates skills in evaluating AI-generated code and applying software engineering best practices.

Crypto Pulse AI

(2026 – Personal Project)

[Github](#)

- Built a real-time Web3 intelligence dashboard that tracks cryptocurrency prices, whale activities, and analyzes market sentiment using Groq AI (Llama 3.1).
- Implemented interactive visualizations with Plotly and deployed using Streamlit.
- Showcases integration of LLMs into data-driven applications.

Sukha POS (Restaurant Point of Sales System)

(2025 – Team Project)

[Github](#)

- Developed a full-stack POS web application using Laravel (PHP) and MySQL to digitize ordering, inventory, and payment processes.
- Implemented complete CRUD operations and REST API architecture.

CO₂ Emission Analysis & Prediction

(2024 – Kampus Merdeka Team Project)

[Google Colab](#) | [Looker Studio](#)

- Performed end-to-end machine learning workflow for predictive analytics using Python and Random Forest.
- Delivered interactive dashboard using Looker Studio.

ORGANIZATIONAL EXPERIENCE

Himpunan Mahasiswa Informatika (HIMASTER)

Surakarta, Indonesia

Independence Staff

January - December 2023

- Created infographics distributed via Instagram every 2 months over a 12-month period to provide insights on business development.
- Designed posters for marketing organizational products to the public.
- Managed organizational sales activities by marketing products, verifying transactions, collecting transaction proofs, and calculating revenue.

Pekan Informasi dan Teknologi (P!NGFEST)

Surakarta, Indonesia

Fundraising Staff

March - September 2023

- Organized fundraising activities for P!NGFEST, achieving a revenue target of approximately IDR 10 million over 6 months.

Reported monthly fundraising income for the assigned projects.

SKILL

Programming Languages: Python, Java, C++, PHP, JavaScript, SQL

Software Engineering & Web Development: Laravel, FastAPI, MySQL, Full-Stack Development, Debugging, Code Review, REST API

AI & Machine Learning: Machine Learning, Predictive Modeling, Data Preprocessing, Feature Engineering, Model Evaluation, LLM Integration, Static Code Analysis

Tools: Git, Github, Looker Studio, Streamlit, Docker (basic), Microsoft Office

Soft Skill: Attention to Detail, Logical Reasoning, Problem Solving, Team Collaboration, Adaptability, Critical Thinking

Language: Indonesian (Native), English (Proficient)