MUHAMMAD HAMJA

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I am a fifth-semester Information Technology student at the University of Indra Prasta PGRI, with a strong focus on web development and data analysis. Currently working as a Junior Data Analyst, I bring hands-on experience in Python, Flask, PostgreSQL, and data visualization tools like Grafana. I excel at building efficient web applications, managing databases, and delivering actionable insights through data analysis. Passionate about solving complex problems, I continuously strive to enhance my technical expertise while supporting informed business decisions.

Education Level

University of Indra Prasta PGRI - Jakarta   Aug 2022 – Present

Bachelor's Degree in Information Technology

- Notable courses taken: Web Programming, Data Structures, Probability and Statistics, Computer Graphics, Database, Software Development.

Work Experiences

PT. Jalin Pembayaran Nusantara - Jakarta   Jun 2023 – Present

Junior Web Developer

Tech stacks: Grafana, MySQL, SQL, Python, Flask, Bootstrap, Matplotlib

- Developed the company's internal website using Python Flask for both frontend and backend.
- Designed and managed databases with PostgreSQL.
- Assisted in data analysis and created visualizations to support business decision-making.
- Developed Python-based web scraping projects to gather relevant external data.
- Maintained and optimized database performance and ensured data security.

Junior Data Analyst

Tech stacks: Grafana, MySQL, SQL, Python, Flask, Bootstrap, Matplotlib

- Assisted in the development of dashboards using Grafana.
- Supported data collection and effective data manipulation.
- Gathered, processed, and analyzed data to facilitate business decision-making.
- Created accurate and reliable visual data representations.
- Collaborated with team members to enhance the data analysis process.

Projects

MilkFruit Website   Dec 2023 - Jan 2024

Full stack Dev

The MilkFruit website is a simple platform designed for small businesses (UMKM), allowing users to browse fruit products and place orders directly through WhatsApp. It provides an easy-to-use interface to streamline the purchasing process for both customers and the business.

Tech stacks: HTML, Cascading Style Sheets (CSS), JavaScript, Tailwind, Git.

- Product Display: Showcases a variety of fruit products with descriptions and prices.
- WhatsApp Order Integration: Customers can place orders directly via WhatsApp with a single click.
- Responsive Design: The website is mobile-friendly, ensuring a seamless experience on all devices.
- Navigation Menu: Simplified menu for easy access to different product categories and information

Licenses and Certifications

Vocational School Graduate Academy (2022) - Junior Web Developer   Mar 2023

Provided in-depth training in web development, focusing on building both frontend and backend applications. Through this course, I gained hands-on experience in essential tools and technologies, preparing me for a Junior Web Developer role.

Credential ID: 1935604860-289/VSGA/BLDSM.Kominfo/2023

- Frontend Development: Learned how to create responsive and interactive user interfaces using HTML, CSS, and JavaScript frameworks like Bootstrap and Tailwind.
- Backend Development: Gained experience in server-side programming with Python and Flask, building scalable web applications.

- Database Management: Acquired skills in designing and managing databases using PostgreSQL, ensuring data integrity and optimization.

Udemy - The Complete SQL Bootcamp: Go from Zero to Hero   Aug 2023

This course offers a comprehensive introduction to SQL, guiding learners from the basics to advanced database queries. Through hands-on projects, participants master essential SQL techniques to manage, analyze, and manipulate data in real-world scenarios.

Credential ID: UC-93e50caa-2a7a-4ab4-b458-960db57e080

- SQL Queries: Learn how to write and execute powerful SQL queries to efficiently retrieve data from databases. This includes mastering the use of SELECT, WHERE, and ORDER BY clauses to filter, sort, and organize data.
- Data Aggregation: Gain proficiency in using functions such as GROUP BY, HAVING, and aggregation functions like SUM, AVG, and COUNT to summarize and analyze large datasets, making complex data easier to interpret.
- Database Design and Relationships: Understand the fundamentals of designing and managing relational databases, including creating tables, defining primary and foreign keys, and establishing relationships between tables to maintain data integrity.
- Data Manipulation: Learn how to insert, update, and delete records in a database using INSERT, UPDATE, and DELETE commands, while ensuring that data is accurately maintained and complies with database constraints.

Udemy - 100 Days of Code: The Complete Python Pro Bootcamp for 2023   Aug 2023

This comprehensive course takes learners from absolute beginners to proficient Python developers in 100 days. It covers a wide range of programming concepts and practical projects to help participants build real-world applications while mastering Python.

Credential ID: UC-4db54771-9870-4cf9-b50a-a8dlbe4e3eea

- Object-Oriented Programming (OOP): Gain a solid understanding of OOP principles such as classes, objects, inheritance, and polymorphism to write efficient and modular code.
- Web Development: Build web applications using Python frameworks like Flask and Django, learning how to handle back-end logic and create dynamic web pages.
- Automation and Data Science: Automate repetitive tasks and dive into data analysis using libraries like Pandas, NumPy, and Matplotlib, providing a strong foundation for working with data.

Python for Everyone Master the Basics of Programming   Sep 2024

The course is designed for absolute beginners, guiding students from no coding experience to a solid understanding of Python programming fundamentals. The course features engaging lessons and hands-on exercises to build confidence and problem-solving skills in coding.

Credential ID: UC-37822883c-cb74-446b-8faa-68d0678b519e

- Core Python Concepts: Students will learn fundamental programming concepts such as variables, data types, and functions. Understanding these building blocks is essential for writing effective Python code.
- Control Flow and Operators: The course covers decision-making structures like conditionals and loops, allowing students to control the flow of their programs. This also includes the use of various operators to manipulate data.
- Problem-Solving Techniques: Emphasis is placed on developing logical thinking and problem-solving skills through practical examples and coding challenges, enhancing students' ability to tackle real-world programming problems.
- Creating Simple Programs: Learners will gain hands-on experience in writing simple Python programs, gradually increasing complexity. This practice helps solidify their understanding and prepares them for more advanced programming topics.

Basic Artificial Intelligence (AI)   Sep 2024 − Sep 2027

This beginner-friendly course is designed for those looking to start a career in Artificial Intelligence (AI). By the end of the course, students will have a solid understanding of fundamental AI concepts and their practical applications.

Credential ID: 93XW5W7N9PM3

- Introduction to AI: Learn the basic concepts of Artificial Intelligence and its potential impact across industries.
- Data for AI: Understand the role of data in AI development, including how to collect and prepare data for AI models.
- Introduction to Machine Learning: Explore the core principles of Machine Learning, a key component of AI, along with practical examples.
- Deep Learning for Everyone: Gain insights into Deep Learning concepts and implement simple projects to demonstrate its applications.

Skills and Certifications

Technical Skills : Python, Flask, HTML, CSS, Bootstrap, Tailwind, JavaScript, Grafana, Scrapy, Data Analysis, Database Management

Linguistics : Bahasa Indonesia (Native), English (Proficiency for job)