

EDGA SUKMA PRATAMA

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EXECUTIVE SUMMARY

I am a 4th semester student at Nusantara University PGRI Kediri Majoring in Informatics Engineering. I am very interested in the Internet of Things (IoT) and Python programming for IoT applications. With great motivation and enthusiasm for learning, I actively participate in competitions and training courses in this area. I aspire to become a software developer specializing in IoT and use Python to develop efficient and scalable IoT solutions. I have knowledge of database management using MySQL and have experience in designing, developing and maintaining databases. In addition, I have basic knowledge and practical experience in IoT systems, including programming microcontrollers and IoT devices using Python. I am also proficient in front-end web development using HTML and CSS and can collaborate and communicate effectively with teams to solve problems and achieve common goals. Additionally, I am interested in Data Analytics and am eager to learn and develop in this area. I am always striving to learn new things and make a positive contribution to every project in the company.

Interested: Internet of Things (IoT), Python programming, data analysis, database management, web development, continuous learning in new technologies in the field of information technology.

EDUCATION

Universitas Nusantara PGRI Kediri - Kediri, Jawa Timur

Aug 2022 - Present

Bachelor Degree in Informatics Engineering, (3.76 / 4.00)

- Relevant Subjects : Programming Python, IoT system, database management, designing and developing databases using MySQL, front-end web development using HTML and CSS.
- Experience Competition : Kediri City Technology Innovation in 2023, Kediri City Technology Innovation in 2024
- Course : concept and implementation object oriented programming python and national seminar on the role of artificial intelligence in the acceleration of creative economy.

PROJECT EXPERIENCE

Project Database application

Dec 2023 - Jan 2024

Using Python GUI and My-SQL

- Designing database and implementation to SD maju mundur database program.
- Analyze the database that is contained in My-SQL.
- Connecting python program language based GUI with My-SQL
- Add features to create, modify, update and delete data easily for users.

Implementation of Bellmand-Ford Algorithm in Determining the shortest trajectory of garbage truck

using Python GUI and Bellman-Ford Algorithm

Dec 2023 - Jan 2024

- Algorithm implementation to python programming to determine the shortest route.
- Using the Graph Method to break the shortest route.
- Analyze troubleshooting using Bellman-Ford algorithm using python programming.

Prototype Project complaint system for empty houses and overnight guests for housing in kediri city

using Django Python

May 2023 - Jun 2023

- Create Community complaint system that is integrated with website and mobile application with django framework.
- Make an analysis about guests coming and staying at housing in the city of Kediri with data entered in the system.
- Create system that is integrated with the security system.
- Managing databases schema changes and reducing the risk of SQL injection attacks.

ACHIEVEMENT

- **Kediri City Technology Innovation in 2023**
2nd Place in Social and Community Affairs with the innovation title "Kentongan: Complaint System for Empty Houses and Overnight Guests for Housing in Kediri City."
Competition description : as part of efforts to improve the performance of government and academia through innovation. This competition also aims to increase the Regional Innovation Index which had fallen.

ORGANIZATION EXPERIENCES

Nusantara Code (NCODE) - Kediri

Sep 2022 - Present

Mobile Apps and Artificial Intellegence

IoT Project Division

- Drive innovation by identifying opportunities to increase efficiency and effectiveness through the application of IoT Technology.
- looking for collaboration opportunities with research institutions and industry for IoT Innovation Projects.
- collect and analyze data generated by IoT Device.
- Identify and develop IoT projects that are relevant to organizational goals.

COURSE AND CERTIFICATES

- **Informatics Engineering Study Program Of Nusantara University PGRI Kediri** **July, 2023**
Concept and implementation object oriented programming python.
- **STAINS (Seminar Nasional Teknologi dan Sains)** **Januari, 2023**
artificial intelligence in the acceleration of creative economy.
- **Terra Computer System Kediri** **September, 2020**
Computer courses and Training (Ms. Word, Ms. Excel, Ms. Power Point, Coreldraw).

ADDITIONAL INFORMATION

HARD SKILL

- **Database Management Using My-SQL** : Advance SQL querying and Database design, Experience in Database Optimization and Indexing, Knowledge of My-SQL Administration.
- **IoT Development** : Knowledge of Microcontroller Programming (Arduino, Raspberry pi), Experince with IoT Platforms.
- **Python Programming in Visual Studio Code** : Familiarity with Python Libraries for Data Analysys (Pandas, NumPy), Experience with Python Web Framework (Django), Intermediate Python scripting.
- **Web Development** : Front End Technologies (HTML, CSS).
- **Operate Ms Excel** : Intermediate skills (PivotTables, VLOOKUP, AVERAGE, COUNT).

SOFT SKILL

- Communication skills
- Work in a team
- Analytical thinking
- Problem solving
- Creativity and Innovative
- Continus learning
- Discipline
- Adaptability

TOOLS

- Visual Studio Code (Intermediate), My-SQL Workbench (Intermediate), XAMPP (basic), Arduino (basic), Ms. Excel (intermediate)

Language

- Indonesia (native)
- Inggris (Intermediate)