Mutia Safira

Software Developer/Software Engineer

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SUMMARY

A passionate and enthusiastic individual in software development, with extensive experience in various aspects of software development, including analysis, design, and system management. Proficient in development using the latest technologies such as HTML, CSS, and JavaScript for front-end, as well as ASP.NET Core MVC for back-end. Additionally, has specialized skills in using Python for applications like Automated Optical Inspection (AOI). Involved in designing and developing applications that encompass business analysis, system integration, and performance optimization. Currently, as a Project Manager Data Analyst, I lead cross-disciplinary data analysis and application development projects, creating Power BI dashboards, automating workflows with Mendix, Power Automate, and Power Apps, and integrating real-time production data for actionable insights. With broad experience and high enthusiasm, I have good communication skills, am easy to interact with, and am capable of working effectively in teams. I am confident that I can make a valuable contribution that aligns with the needs of the company.

EXPERIENCE

Project Manager Data Analyst
PT. Jabil Circuit Indonesia ↗

06/2024 - 04/2025

- Cross-Disciplinary Data Analysis: Managed and analyzed data from various departments such as production, quality, engineering, and finance to support strategic decision-making.
- Power BI Dashboard Development: Created interactive dashboards to monitor production performance, scheduling, forecast planning, and electronic Statistical Process Control (SPC), leveraging data from SQL Server.
- Automation and App Development: Developed business applications using Mendix, Microsoft Forms, Power Automate, and Power Apps to streamline company operations.
- Project Manager Role: Led data analysis and application development projects, overseeing planning through implementation while ensuring timely delivery and alignment with business needs.
- Production Data Optimization: Integrated real-time production data from databases to generate actionable insights through in-depth analysis.

CORE-IE Software Developer Apprentice
Collins Aerospace ↗

06/2023 - 06/2024

Front-end Development:

- Designed and implemented responsive and visually appealing user interfaces (UI) for various website projects, including e-CPS, CORE-X, and Dashboard Cell Shaft, ensuring alignment with business requirements and stakeholder expectations.
- Enriched the use of simple algorithms to improve the functionality and responsiveness of the interface, adhering to software best practices to deliver optimal user experiences.
- Implemented cutting-edge technologies such as HTML, CSS, and JavaScript to create an optimal user experience, considering business requirements and collaborating with other stakeholders for feedback and iteration.

Back-end Development:

- Developed the back-end to support the core functions of websites, including data management, user authentication, and database interaction using ASP.NET Core MVC, while ensuring alignment with business requirements and stakeholder needs.
- Implemented CRUD (Create, Read, Update, Delete) operations accompanied by the use of simple algorithms to ensure efficient access and manipulation of data, following software best practices to maintain code quality and scalability.
- Using the C# programming language to develop robust and efficient back-end solutions.

System Integration:

- Ensured efficient and coordinated operation between front-end and back-end in system development, collaborating with

other stakeholders to understand their needs and integrate their requirements seamlessly.

- Using the appropriate programming language for the platform being used, such as C# for .NET-based systems.
- Contributed to developing Automated Optical Inspection (AOI) systems using Python to improve the efficiency and accuracy of optical inspection, while adhering to software best practices and considering business requirements for effective integration.

Data Structure and System Design:

- Deepened knowledge and skills in data structures to optimize CRUD operations and enhance application performance, following software best practices and considering business requirements for scalable and efficient system design.
- Implemented system design principles to plan scalable, efficient, and maintainable system architectures, collaborating with other stakeholders to ensure alignment with business goals and requirements.

3D Modeling:

- Created framework models in the form of 3D images according to given specifications, collaborating with other stakeholders to understand their visualization needs and ensure alignment with business requirements.
- Utilized skills and knowledge in 3D modeling to support projects involving visual representation and modeling, while adhering to software best practices for efficient and accurate modeling processes.

Process Improvement:

- Identified and proposed improvements in software development processes, including the development of AOI systems and 3D modeling, collaborating with other stakeholders to gather feedback and address their pain points.
- Participated to the implementation of necessary changes to refine the quality and speed of development, while considering software best practices and business requirements for sustainable process improvement.
- Assisted in resolving issues encountered during software or other system development, collaborating with other stakeholders to implement effective solutions and ensure alignment with business goals and requirements, with a focus on debugging to identify root causes of issues and implement appropriate fixes.

Thesis Research   08/2022 - 11/2022

Design of a Monitoring System for Monitoring the Quality of Nutrition and Microclimate in Nanobubble Technology-Based Hydroponics

Several projects have been developed using C++ for sensor data reading. Basic Java was utilized for configuration in Node-RED, while MQTT was implemented for data transmission. Recognition for research findings published in a SINTA 2-indexed journal with DOI: http://dx.doi.org/10.23960/jtep-l.v12i2.470-483 has been achieved.

Software Engineer   07/2021 - 09/2021

Habibi Garden ↗

Developed Farming Business Analysis Calculator for Habibi Garden Application (Front-end):

- Successfully designed and implemented a farming business analysis calculator within the Habibi Garden application in a timely manner.
- Ensured that the user interface (UI) of the calculator was responsive, user-friendly, and optimized for optimal functionality.
- Collaborated closely with the development team to ensure seamless integration with the back-end system.

Created Google Maps Feature (with Markers) for Habibi Garden Dashboard:

- Developed a Google Maps feature enabling users to navigate and map locations within the Habibi Garden dashboard.
- Provided a marker feature enabling users to identify the locations of Habibi Garden customers on the map.
- Optimized the performance of the map feature to ensure a smooth and responsive user experience.

EDUCATION

Agricultural Engineering   08/2018 - 01/2023

Padjadjaran University - Bachelor of Agricultural Technology

CERTIFICATES

Apprenticeship in Full Stack Programming and Software Development ↗   06/2024 - Present
Collins Aerospace

- Completed a comprehensive apprenticeship program focusing on Full Stack Programming (ASP.NET CORE MVC), MS SQL Server, SDLC, Problem Solving, Python, computer vision, Lean Tools, and Kaizen.
- Recognized for achieving competencies in software development and process improvement methodologies.

CORE Internship Achievement Certificate ↗   03/2024 - Present
RTX

- Successfully completed the CORE internship program, recognized for outstanding performance and contributions.
- Acknowledged by senior leadership for achievements in operational and supply chain excellence.

SKILLS

Power BI	Advanced	JavaScript	Intermediate
CSS	Intermediate	Git	Basic
HTML	Advanced	C++	Intermediate
ASP.NET	Intermediate	System Design	Intermediate
C#	Intermediate	Program Management	Intermediate
React Native	Intermediate	Work in a team	Advanced
React.js	Intermediate	Effective Communication	Advanced
Python	Basic	Collaboration Skills	Advanced

LANGUAGES

English	Intermediate