

MUHAMMAD RAFII

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A Full-Stack Developer & Data Analyst with a strong background in enterprise systems, process automation, and data-driven decision-making. Skilled in developing custom business applications using PowerApps and SharePoint, designing interactive dashboards with Power BI, and optimizing workflows to improve operational efficiency. Experienced in bridging HR, finance, and IT requirements to deliver scalable and impactful digital solutions.

SKILL SUMMARY

Programming & Development:

- Languages: C#, HTML, JavaScript, CSS, Python
- Frontend Frameworks: React, Vue.js, Angular, Next.js
- Backend Frameworks: Node.js, Laravel, Django, Flask, Express.js
- Database Management: MySQL, Microsoft SQL Server, SQLite, PostgreSQL, MongoDB

Enterprise Systems & HR Tools:

- SAP 100 & 180: HR data management, contract tracking, payroll processing
- Microsoft PowerApps – Low-code application development
- Microsoft SharePoint: Document management & internal collaboration

Data Analysis & Automation:

- Data Visualization & Reporting: Power BI, Power Query, Excel, Looker, Metabase
- Automation & Scripting: Excel Macro VBA
- Advanced Excel Formulas: VLOOKUP, HLOOKUP, INDEX-MATCH, SUMIF, COUNTIF, IFERROR, PIVOT TABLES, TEXT FUNCTIONS, MIN, MAX.

Workflow & Documentation:

- Process & Workflow Optimization: Microsoft Visio, Canva, Figma
- Technical Documentation & SOP Writing: Microsoft Word

Internal Communication & Design:

- Presentation & Visual Content Creation: Microsoft PowerPoint, Canva

Machine Learning & Data Science:

- Libraries: Pandas, NumPy, Matplotlib, Seaborn, Plotly, Scikit-learn, TensorFlow, Keras
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WORK EXPERIENCES

Husky CNOOC Madura Limited

Human Resource General Affair & Center of Expertise

Jakarta, Indonesia || February 2025 – present

- **Designed and implemented the Knowledge Management System**, developing the platform from Figma mockups to PowerApps and SharePoint, enabling employees to submit and access training materials, reports, and other company documents.
- **Developed automated termination forms**, reducing manual calculation errors and improving processing efficiency.
- Designed and implemented Power BI dashboards to support HR analytics, including:
 1. **Training Record Dashboard** – Monitoring employee training completion rates.
 2. **New Hiring Report Dashboard** – Tracking recruitment and onboarding progress.
 3. **Application Utilization Dashboard** – Analyzing workforce engagement with internal applications.
 4. **Office Space Mapping Dashboard** – Visualizing vacant workstations using Power BI integrated with Microsoft Visio.
 5. **Budget Reporting Dashboard** – providing real-time insights into budget allocation and financial performance.
- **Led Power BI adoption**, enhancing data-driven decision-making and reporting efficiency.

- Developed **Power BI** visualizations to analyze contract worker data, improving workforce insights.
- Conducted **QA testing** for internal applications, identifying and resolving performance bottlenecks.
- Automated **HR document processing** using Excel Macro VBA, reducing manual workload.
- Created workflow documentation with Microsoft Visio, optimizing HR processes.
- Managed HR data using **SAP 100 & 180**, ensuring accuracy in employee records and payroll tracking.

- Developed an auto-learning chatbot using Python, enhancing customer support efficiency.
- Implemented machine learning models to improve chatbot accuracy and responsiveness.

FINISHED PROJECTS

1. Knowledge Management System – Husky CNOOC Madura Limited

- Developed a **centralized digital repository** for storing and sharing company documents, training materials, and other knowledge assets.
- Implemented the system using **PowerApps and SharePoint**, ensuring seamless document submission, categorization, and retrieval.
- Enabled employees to **upload and share post-training documents, reports, and best practices**, fostering a culture of continuous learning and collaboration.

2. Automated Termination Form – Husky CNOOC Madura Limited

- Designed a **fully automated** calculation system for termination benefits.
- Improved **HR efficiency** by reducing manual processing errors.

3. Power BI Dashboards – Husky CNOOC Madura Limited

- Developed **four key dashboards** for training records, hiring reports, application utilization, and office space mapping.
- Enabled **real-time workforce** monitoring and strategic decision-making.

4. Quality Assurance & Workflow Documentation for "P-Mobile" - PT Pertamina Hulu Energi

- **Conducted QA testing** on internal applications to ensure system stability and usability.
- **Developed workflow documentation** using Microsoft Visio and Word.

5. Officer Contract Dashboard - PT Pertamina Hulu Energi

- **Developed a data visualization dashboard** to monitor contract worker activities across all PHE regional offices.
- **Utilized Power BI, Power Query, and Excel** to transform raw data into interactive reports.

6. Employee Activity Traffic Dashboard - PT Pertamina Hulu Energi

- Built a **usage analytics dashboard**, helping management optimize system performance.

7. HR Data Management & Reporting Using SAP - PT Pertamina Hulu Energi

- **Managed HR contract worker records** in SAP 100 & 180, ensuring compliance and accuracy.
- **Integrated SAP-generated reports into Power BI dashboards** for real-time monitoring.

8. Workflow Optimization for Application Usage - PT Pertamina Hulu Energi

- **Designed and documented workflow processes** using Microsoft Visio, Canva, and Figma.
- **Created step-by-step guidelines and SOPs** to enhance user adoption and streamline business operations.

9. Internal Broadcast System & Public Holiday Announcements - PT Pertamina Hulu Energi

- **Designed and developed an internal broadcast system** for company-wide announcements.
- **Created visual materials using Canva and PowerPoint for SOP updates**, national holidays, and common leave.
- **Ensured clear communication across all employees** by improving announcement visibility.

10. Thesis - Classification of Meat Freshness Using AI

- Developed an AI model using Artificial Neural Networks (ANN) to classify fresh and spoiled beef.
- Achieved 97% accuracy, demonstrating expertise in data preprocessing and feature engineering.

11. Scientific Research - Web-Based Fanpage

- Designed and built a fanpage website featuring artist biographies, event listings, and a merchandise store.
- Integrated external links for ticket purchases and interactive engagement.

EDUCATIONS

Gunadarma University	
Bachelor of Computer Science; GPA: 3.37/4.00	<i>Jakarta, Indonesia</i> September 2019 – August 2023
SMA Negeri 9 Kota Bogor	
Mathematics and Natural Sciences (MIPA)	<i>Bogor City, Indonesia</i> July 2016 – July 2019

CERTIFICATES

Programming & Software Development

- Desktop-Based Programming Fundamentals
- Building Websites Using HTML5
- Visual Basic.NET for Beginners
- Visual Basic.NET for Intermediate
- Introduction to C/SIDE
- Programming in Microsoft Dynamics NAV

Data Science & Machine Learning

- Data Science Course
- Microsoft Dynamics NAV for Beginners
- Data Analytics for HR