

Muhammad Raqil Salman Alfarisi

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<https://muhammad-raqil.vercel.app/>

Software Engineer with experience in designing, developing, and maintaining end-to-end web applications, covering front-end and back-end development, database design and management, and system integration. Experienced in delivering freelance projects, building responsive and user-friendly interfaces, developing and integrating RESTful APIs, and implementing business logic based on client requirements. Possesses strong analytical and problem-solving skills, works effectively both independently and collaboratively within cross-functional teams, and adapts quickly to evolving project requirements and emerging technologies.

Professional Experience

Back End Developer | PT Royal Abadi Sejahtera | Bandung, Indonesia

Jun 2026 – Present

Fullstack Dev | Textilindo | Tangerang, Indonesia

Des 2025 – Jun 2026

- Designed and implemented a headless CMS architecture using Strapi and Next.js to support a scalable multi-company website structure.
- Designed and implemented RESTful API integrations between an ERP system and frontend applications, enabling secure and efficient data synchronization while ensuring seamless system interoperability.
- Designed and implemented a mobile attendance system integrated with an ERP platform to enable secure, real-time data synchronization and streamline attendance management processes.
- Implemented a dynamic headless content management system (CMS) using Strapi to support multiple sub-brand websites, enabling centralized content management, scalability, and seamless content delivery.

Freelance IT Developer | Remote

Jan 2023 – Present

- Developed a brain tumor classification model using a pre-trained VGG16 architecture with transfer learning on the ImageNet dataset to classify MRI images into glioma, meningioma, and pituitary tumor categories. Achieved an overall accuracy of 80%, with per-class F1-scores of up to 0.88, using TensorFlow and Keras. [Github](#).
- Developed an object detection pipeline for apple recognition using Detectron2 Faster R-CNN. The system was configured with a pretrained backbone and customized for apple datasets, establishing a workflow for training, inference, and evaluation. [Github](#).
- Developed a predictive model using the Random Forest algorithm on an e-commerce transaction dataset to identify key factors influencing order cancellations and product returns. Analyzed features including order status, cancellation reasons, payment methods, product prices, and other transactional attributes to support data-driven business insights. [Github](#).
- Developed a diabetes risk prediction model using the XGBoost algorithm by applying data preprocessing and feature engineering techniques to a medical dataset. Implemented the end-to-end machine learning workflow in Jupyter Notebook. [Github](#).

- Designed and developed a deep learning model based on the AlexNet convolutional neural network (CNN) architecture for an automated Balinese script transliteration system. [Github](#).
- Developed an automated retail inventory analysis system in Google Sheets by implementing formulas and data workflows to classify products in real time as Fast-Moving, Slow-Moving, or Dead Stock, enabling more efficient inventory management and data-driven decision-making. [Link](#).

Web Developer | Universitas Jenderal Achmad Yani | Cimahi, Indonesia

Apr 2024 – Jul 2024

- Developed and implemented a web-based waste classification system to identify organic and inorganic waste using a Convolutional Neural Network (CNN) based on the AlexNet architecture. Achieved 91% classification accuracy for organic waste and 80% for inorganic waste, with the model integrated into a Flask-based web application. [Github](#).
- Designed and developed UI/UX prototypes for a mobile e-commerce application (Petshop Project) using Figma, focusing on intuitive navigation, modern design principles, and an enhanced user experience. [View design](#).

Web Programmer Intern | Pemerintahan Kota Cimahi | Cimahi, Indonesia

Aug 2023 – Oct 2023

- Developed a web-based application for electronic letter and certificate submissions, streamlining administrative workflows and reducing manual processing time.
- Developed and integrated an IT Helpdesk module that enables users to submit change requests through a dedicated portal, while allowing administrators to efficiently track, manage, and review submitted requests.

Education

- **Bachelor of Computer Science | Universitas Jenderal Achmad Yani | Cimahi, Indonesia** Sept 2020 – Sept 2024
IPK: 2.80 | Artificial Intelligence, Machine Learning, Web Development, and System Design Activities :
- Head of Communications, Information, and Public Relations Departmentn | BEM Fakultas, Universitas Jenderal Achmad Yani Sept 2022 – Sept 2023
 - Led the department in managing communication and information systems to improve coordination and information flow among faculty members.
 - Led initiatives to foster collaboration between students and academic stakeholders, enhancing communication and organizational engagement.
- Member, Research and Strategy Department | Himpunan Mahasiswa Informatika
 - Participated in research, strategic discussions, and organizational planning to support departmental initiatives.
 - Supported the planning and execution of academic events and knowledge-sharing sessions.

Technical Skills

Soft Skills :	Hard Skills :	Sept 2021 – Sept 2022
• Manual Software Testing • Problem-Solving & Analytical Thinking • Time Management & Attention to Detail • Communication & Teamwork	• Next js, Python, Flask, PHP • UI/UX Design (Figma, XD, Canva) • SQL • Git & Github • Microsoft Office • RESTful API	