

# MUHAMAD YUSUF FIRIZKI

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Bekasi, Jawa Barat

Enthusiastic and detail-oriented Informatics student passionate about Artificial Intelligence and full-stack development. Experienced in software engineering, deep learning, computer vision, and natural language processing. Skilled in exploring new technologies and building scalable web and AI applications. Passionate about exploring various tools, frameworks, and programming languages, and eager to continue growing in programming skills and personal development.

## Work Experiences

### PT Rifan Financindo Berjangka - Jakarta

Sep 2022 - Feb 2023

*Business Consultant*

Arranged meetings with prospective clients, presented product solutions, and built strong client relationships to support sales targets and business expansion.

## Projects

### *Vehiscan*

May 2025

*AI Engineer & Data Scientist*

Built a real-time vehicle detection and license plate recognition system using YOLOv8. The system counts passing vehicles and reads plates, with data managed via AWS S3, Roboflow, and Notion.

### *AsqartStudio*

May 2025

*Fullstack Developer*

Designed a modern portfolio website template for photographers and studios using React, Vite, and Tailwind CSS. Features a responsive layout and image gallery support.

### *Chatbot Sejarah Indonesia*

Mar 2025

*Project Manajer*

Chatbot Sejarah Indonesia is a project I developed to provide interactive information about Indonesian history using natural language processing, using Hugging Face, Flask, and BERT with all-MiniLM-L6-v2 for semantic similarity and question matching.

### *Brain Tumor*

Feb 2025

*AI Engineer & Data Scientist*

Developed a deep learning model using the U-Net architecture to automatically segment brain tumors from MRI images. The project aimed to support early detection and diagnosis by providing accurate tumor localization. Utilized Python, PyTorch, and OpenCV, with medical imaging datasets such as BraTS for training and evaluation.

### *Image Processing Application*

Jan 2025

*AI Engineer*

Developed a web-based application that performs basic image processing tasks such as grayscale conversion, edge detection, and blurring using Python, OpenCV, and Streamlit. Aimed to demonstrate real-time image manipulation with an intuitive user interface.

**E-Laundry**

Fullstack Developer

Dec 2024

Created an online laundry service platform with features such as service ordering, pickup scheduling, and order tracking. Built using PHP and MySQL, the system streamlines laundry operations for both customers and administrators.

**PUNTEN (President University Canteen)**

Fullstack Web Developer

May 2024

Developed and designed a PHP-based web application with a mobile like interface for managing canteen orders at President University. Led the team to achieve 1st place in the app category at the University exhibition.

## Education Level

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**President University - Bekasi**

Bachelor of Informatics, 3,84/4.00  
Concentration: Artificial Intelligence

Sep 2023 - December 2026 (Expected)

**Korea-ASEAN Digital Academy - Bekasi**

Bachelor of Informatics, 3,84/4.00  
Relevant Coursework: Ethics and Security, Web Development, Backend, Cloud Service, Data Analysis, DevOps, UI/UX

Jun 2023 - Present

## Organisational Experience

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**President International Model United Nations (PresMUN) - Bekasi**

Assistant Unit Sub Group Leader, Data Master

Nov 2024 - Jul 2025

Assist in leading the Data Master division by supporting data management, ensuring data accuracy, and coordinating with team members to maintain and update the organization's database. Also responsible for helping plan and execute division programs and initiatives.

**Young On Top - Bekasi**

Staff Humas, Humas

Jan 2025 - Feb 2025

Handled public relations and external communication to promote the Taman Baca Krakatau activity. Responsible for building partnerships, and managing engagement to increase public participation in the event.

**Young On Top - Bekasi**

Staff Humas, Humas

Feb 2025 – Mar 2025

Managed public relations efforts for the YOT Share Ramadan event, focusing on external communication, donor coordination, and media publication to support the success of the charity program at the orphanage.

## Skills, Achievements

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- **Achievements (2024):** 1st Winner, President University Exhibition (PUNTEN – President University Canteen)
- **Skills:**
  - Artificial Intelligence: Machine Learning, Deep Learning (CNN, RNN, Transformer), Natural Language Processing (NLP), Computer Vision
  - AI & ML Frameworks: TensorFlow, PyTorch, Hugging Face, OpenCV, NLTK, Scikit-learn
  - Programming Languages: Python, Java, JavaScript, PHP, Html, SQL
  - Web Development
  - Frontend: React.js, Next.js, HTML, CSS, Tailwind CSS, Vite
  - Backend: Node.js, Express.js, Laravel, FastAPI
  - Databases: MongoDB, SQL
- **Certificates:**
  - Exhibition of Economic Survival – President University (2024) – 1st Winner
  - Korea-ASEAN Digital Academy (KADA) – AKCF (2025)
  - Introduction to Cloud and Gen AI on AWS – Dicoding (2025)
  - Workshop AI Frontier: Generative AI Insights & Practice of AI Creation – President University (2025)
  - Prompt Engineering with Azure OpenAI Service – Digitalent (2025)
  - Linear Models in Machine Learning: Fundamentals – Digitalent (2025)
  - The Importance of Data Privacy and Protection – Digitalent (2025)
  - Scaling AI in Your Organization – Digitalent (2025)
  - Fundamentals of AI Security – Digitalent (2025)
  - Fundamentals of Artificial Intelligence Implementation – Digitalent (2025)