



KEVIN NOVRIZAL

AI Software Engineer

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I'm Kevin Novrizal, a Computer Science student with a strong passion for programming and artificial intelligence. Proficient in Python, SQL, and software development, I enjoy building intelligent systems and tackling complex challenges through code. With a sharp analytical mindset and keen attention to detail, I am dedicated to developing impactful, AI-driven solutions.

Work Experiences

Kodland - Jakarta, Indonesia

Feb 2025 - current

Private Tutor

Kodland is an international educational technology company focused on teaching digital skills to children and teenagers. Through a project-based curriculum, Kodland empowers young learners to develop coding, game development, and digital design abilities. Supported by professional instructors and an interactive learning platform, Kodland is committed to nurturing creativity, problem-solving, and future-ready tech skills in the next generation.

- Guided children aged 8–17 in learning the fundamentals of programming using Lua in Roblox Studio through fun and engaging sessions.
- Taught essential coding concepts such as variables, conditionals, loops, and functions using hands-on game development projects.
- Encouraged students to publish their games on the Roblox platform, helping them build confidence and a digital portfolio.

PT Jas Aero Engineering Service - Tangerang, Indonesia

Sep 2023 - Feb 2024

Fullstack Mobile Developer

PT JAS Aero Engineering Service is a company specializing in aircraft maintenance and aviation engineering. The company focuses on providing line maintenance services for domestic and international airlines. Supported by experienced professionals and cutting-edge technology, JAS AERO is committed to ensuring safety, reliability, and operational efficiency in aviation.

- Responsible for end-to-end mobile application development, including requirements analysis, feature planning, development, and deployment.
- Collaborated with the team to design an optimized data storage system, enabling efficient access and analysis of aviation safety data.
- Implemented data visualization features to support data-driven decision-making by management.

Algorithmics Global - Jakarta, Indonesia

Aug 2023 - Oct 2023

Tutor Python

Algorithmics is an international programming school for children and teenagers. The school focuses on teaching coding, mathematics, and critical thinking through interactive and engaging programs tailored to young learners. By combining innovative methodologies with hands-on projects, Algorithmics helps students develop essential skills such as problem-solving, creativity, and logical reasoning. Operating in multiple countries worldwide, the school aims to inspire the next generation of technology innovators.

- Taught Python programming and algorithms to children and teenagers through interactive and engaging programs.
- Played a role in preparing the next generation of technology innovators by teaching essential technical skills and fundamental algorithms.
- Helped students develop problem-solving, creativity, and logical reasoning skills through project-based learning.

PT. Media Antar Nusa (Nusanet) - Lampung, Indonesia

May 2020 - Sep 2020

Technical Assistant

PT. Media Antar Nusa, known as Nusanet, is a company specializing in information and communication technology services. Established in 1996, Nusanet offers high-quality internet services, IT solutions, and networking for a wide range of customers, from individuals to enterprises. With a focus on innovation, reliability, and customer service, Nusanet is committed to supporting digital transformation in Indonesia.

- Responsible for providing technical support for hardware and software within the company.
- Perform routine maintenance on computer systems and network devices to ensure smooth operations.
- Successfully identified and resolved technical issues disrupting operations with a quick response time, reducing downtime by up to 30%.

Projects

DocuMind – AI Project

This project aims to build a Retrieval-Augmented Generation (RAG) system that enables intelligent document understanding using embeddings and metadata. It utilizes a local LLM for contextual reasoning, powered by embeddings stored in a vector database (Qdrant), combined with metadata such as page numbers, document owner, titles, and number of tables.

- Python (core development language)
- Qdrant (vector database for storing embeddings)
- LM Studio (running local LLM)
- DeepSeek Models
- PyMuPDF & Transformer NER (document parsing and analysis)

- Flask (API layer)

Personal Virtualized Home Server Infrastructure with Proxmox VE – Home Server

This project sets up a personal home server infrastructure using Proxmox Virtual Environment (VE) to manage and deploy multiple virtual machines (VMs) and containers (CTs).

- Proxmox

Dynamic Portfolio Website Using Laravel - Website

This project is a dynamic and responsive personal portfolio website built using the Laravel framework. It allows visitors to view detailed information about the developer, including projects, skills, education, contact information, and more. The backend is designed to manage portfolio and project content from a centralized admin interface.

- Laravel (PHP)
- Database
- MySQL
- aapanel

TEH MELATI – Mobile App & Website

Teknik Eksplorasi Hewan MeLalui Teknik Inklusif (Exploration Techniques of Animals Through Inclusive Methods). An educational application based on Augmented Reality (AR) designed for children with special needs at Homeschooling Lantaburo. I developed a REST API using PHP and Laravel to connect the website with a mobile application capable of scanning physical cards and displaying them as AR objects. This project supports inclusive and interactive learning. Reinforcement Learning is used to create dynamic levels in the app, supporting inclusive and interactive learning.

- Reinforcement Learning
- Augmented Reality
- C# Unity 3D
- MySQL
- Mobile App
- RestAPI

AI Deployment on Home Server Using Proxmox Virtualization - AI Project

The goal of this project is to create a simple AI chatbot that generates responses freely, without relying on any pre-stored data or historical conversations. The chatbot will be deployed on a home server using Proxmox virtualization, and will interact with users in real-time, generating responses based on its internal AI model.

- smollm2:135m
- Proxmox
- ollama

Education Level

Mercu Buana University - Jakarta, Indonesia

Aug 2021 - May 2025

Bachelor of Computer Engineering, 3.70/4.00

- Earned the BNSP certification in Software Engineering, recognizing expertise and knowledge in professional software development.
- Awarded the BIMA grant with a high level of recognition, which supported further development of the project.
- Held the position of Vice President of the Student Representative Council, contributing to policy formulation and representing the student voice in various decision-making forums.

Organisational Experience

Dewan Perwakilan Mahasiswa (DPM) - Jakarta, Indonesia

Aug 2023 - Sep 2024

Vice President

The Student Representative Council (DPM) is an organization that represents the student body in academic and non-academic decision-making on campus. This organization is responsible for formulating policies, holding discussions, and collaborating with campus authorities to enhance the quality of education and student welfare. DPM is also involved in organizing campus activities and developing programs that support the needs and aspirations of students.

- Involved in strategic decision-making that influences campus policies and initiatives.
- Focused on utilizing data to assess student needs and improve the efficiency of campus programs, proposing IT-based solutions for data management and administrative processes.
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Skills

- C#
- Python
- SQL

- RAG based AI system development
- Machine Learning
- Reinforcement Learning
- Embedding Models
- RESTAPI
- Docker
- Cloud Computing
- HTML