

MUTYAYASA ADJI NUGROHO

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SUMMARY

AI & Full-Stack Engineer with hands-on experience building AI-powered document verification systems, GIS dashboards, and production web applications using Vue/Nuxt, .NET, FastAPI, PostgreSQL, AWS Textract, AWS Bedrock, and YOLO. Experienced in developing end-to-end systems involving OCR, computer vision, REST APIs, data processing, deployment, and automated reporting.

WORK EXPERIENCE

Kementerian PUPR – Direktorat Jenderal Bina Marga

IT Assistant / Full-Stack Dashboard Developer | May 2026 – Present

- Developed a toll road monitoring dashboard for Renstra projects, integrating project data, section progress, GIS map visualization, filtering, and executive-level monitoring views.
- Built backend services using FastAPI and PostgreSQL to manage project, section, monitoring, import log, and report asset data.
- Implemented automated PowerPoint report generation using official templates, transforming monitoring data, issues, risks, mitigations, maps, and documentation assets into structured presentation slides.

PT. Visionet Data Internasional

Artificial Intelligence Engineer Intern | Oct 2024 – Mar 2025

- Developed an AI-powered web-based document verification system using Vue.js and .NET Core, integrated with AWS Textract OCR, achieving 80% validation accuracy.
- Built an AI-powered chatbot using AWS Bedrock to analyze uploaded reports and generate automated insights.
- Designed a custom object detection pipeline using YOLO to validate required visual evidence and improve flexibility beyond managed AWS vision services.

Masyarakat Energi Terbarukan Indonesia (METI)

Freelance Full-Stack Web Developer | Feb 2025 – Present

- Developed and deployed a full-stack organizational website using Nuxt/Vue for the frontend and backend APIs for authentication, membership management, admin dashboard, and internal systems.
- Implemented membership workflows, payment processing, staging/production deployment, bilingual support, SEO optimization, Schema.org structured data, and sitemap automation.
- Managed production deployment through cPanel, ensuring safe releases, domain configuration, and minimal downtime.

SuperMap GIS

Application Developer Intern | Feb 2024 – Aug 2024

- Created a flood detection and prediction application using rainfall and river data for Jakarta, achieving 78% prediction accuracy.
- Integrated GIS data visualization to support flood risk analysis and decision-making.

EDUCATION

Bina Nusantara University

Bachelor of Science in Computer Science, Specialization in Artificial Intelligence | GPA: 3.32 / 4.00
Sep 2021 – Dec 2025

Universitas Multimedia Nusantara

Non-Degree Program in Information Systems, Data Engineering & Data Analytics | GPA: 3.88
Jan 2024 – Jul 2024

SKILLS

- AI/ML:** AWS Textract, AWS Bedrock, YOLO, OCR, Computer Vision, Machine Learning, Deep Learning
- Programming & Web:** Python, C#, Java, C++, Vue.js, Nuxt, Node.js, FastAPI, REST API
- Database & Tools:** PostgreSQL, SQL Server, Git, cPanel, Data Processing, Report Automation
- Languages:** Indonesian, English, Japanese
- Certification/Publications:** Data Analysis & Visualization – Talent Scouting Academy Kominfo; submitted flood and rainfall mapping research article to AIP.