Nathan Dwipasca Rozi

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Final semester Master of Informatics student at President University specializing in Front-end Development, Deep Learning, and Natural Language Processing. Experienced in building responsive web applications with React and Next.js, and implementing deep learning models. Passionate about creating user-friendly AI applications and seeking opportunities to bridge cutting-edge AI research with practical solutions.

Work Experience

UPT TIK Frontend Engineer • Universitas Negeri Jakarta

June 2024 - January 2025 | Jakarta, Indonesia

- Serve as the sole front-end developer for a critical revenue-generating project, creating a facility reservation system for the university
- Independently design and implement the entire user interface and front-end architecture
- Collaborate closely with back-end engineers, supervisors, and the Head of Business Management (Ketua Badan Pengelola Usaha) to ensure alignment with project goals and stakeholder requirements
- Utilize modern front-end technologies to create a scalable and maintainable codebase
- Implement features to support the university's transition to PTN-BH (Perguruan Tinggi Negeri Badan Hukum) status, as mandated by the Ministry of Education

Frontend Engineer • PT. SEKOLAH IKLAN PROFIT

August 2023 - May 2024 | Jakarta, Indonesia

- Collaborated with Back-end engineer to identify and resolve issues early in the development process
- Worked closely with Back-end engineers to connect API from backend to frontend
- Learned and Apply Agile methodologies
- Collaborated weekly with stakeholders to implement new features
- Designed and implemented responsive web pages using ReactJS and TailwindCSS

Research Project

A Proactive-Generative Framework for Knowledge Base Construction from University Website Using Transformer

2024 | Master's Thesis Research, President University

- Developed an automated framework to construct FAQ knowledge bases from fragmented university website information
- Implemented two-stage pipeline: fine-tuned IndoBERT for Named Entity Recognition (F1-Score: 76.7%) and LLM-based question generation
- Achieved 446.4% improvement over baseline models in end-to-end FAQ generation quality (score: 0.683 vs 0.125)
- Technologies: Python, IndoBERT, Transformer models, Large Language Models, NLP techniques

Web & Mobile Based Children Gadget Monitoring System for Parents

2024 | Bachelor's Capstone Project, President University

- Developed a comprehensive monitoring system to help parents track and manage children's device usage
- Built cross-platform solution with web dashboard for parents and mobile application integration
- Implemented real-time monitoring features for screen time, app usage, and content filtering
- Worked in cross-functional team: mobile development, web dashboard, and backend API integration

Education

President University

Master in Informatics • 2024 - Present

President University

Informatics • 2021 - 2024

Skills

- NextJS, ReactJS
- Sprint, Agile
- HTML, CSS, JavaScript
- Version Control (Git)
- RESTful API integration
- Python, Deep Learning, NLP

Language

- Indonesian
- English