

# RYAN RADITYATAMA

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Software Engineer with a strong background in building smart and efficient digital solutions. Experienced in both frontend and backend development, I enjoy creating user-friendly applications and bringing AI technologies into real-world use. I've worked on projects using popular tools like React and Node, and have applied AI to make software more powerful and responsive. With a Master's degree in Computer Science from Beijing Institute of Technology, my research explored how AI can support mental health using Indonesian language models. I'm passionate about building reliable systems, improving performance, and leading projects that blend software engineering with innovation in AI.

## PROFESSIONAL EXPERIENCE

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**AI ENGINEER** - London, United Kingdom (Remote)

March 2025 – July 2025

Trymerra AI Ltd.

- Developed a minimum viable product (MVP) for an AI-driven recruitment platform, handling the entire development process from UI/UX design to full-stack implementation. The goal was to create a seamless experience for both candidates and recruiters.
- Built the frontend using React and developed backend APIs to handle core logic and data operations. Integrated Appwrite as the backend-as-a-service solution for authentication, database management, and cloud functions.
- Integrated advanced conversational AI features, including CV parsing and automated interview simulations, to automate and personalize the candidate screening process. These features significantly reduced manual workload and improved efficiency.
- Focused on optimizing system performance to ensure a responsive, real-time user experience. Applied best practices in frontend responsiveness and backend speed, while continuously testing for stability across user flows.

**AI & ALGORITHM ENGINEER** - Jakarta, Indonesia

PT. Digital SawitPRO

Jan 2025 – Feb 2025

- Managed the development of an AI-based computer vision system to automatically detect palm trees from drone and satellite imagery. This helped eliminate manual counting, significantly increasing efficiency and accuracy in plantation monitoring.
- Built and fine-tuned deep learning models using PyTorch, focusing on object detection and image segmentation methods suited for dense agricultural layouts. The algorithm was optimized to handle varying image quality and environmental conditions.
- Worked closely with the engineering and product teams to integrate the detection system into a scalable pipeline, enabling real-time analysis and supporting decision-making in palm plantation management.

**AI ENGINEER** - Jakarta, Indonesia

April 2023 - April 2024

BIT's NLPiR Research Lab

- Conducted research and development to fine-tune large language models (LLMs) for the Indonesian language, focusing on improving performance for low-resource NLP tasks such as sentiment analysis, intent classification, and text generation.
- Preprocessed and curated large-scale Indonesian datasets, applying tokenization, cleaning, and annotation strategies to enhance model training quality and relevance. Evaluated model outputs using benchmarks and human feedback

**SENIOR INFORMATION TECHNOLOGY SOLUTIONS** - Jakarta, Indonesia

Oct 2022 – Feb 2023

Universitas Mercu Buana

- Led a small IT team to ensure the smooth operation and availability of campus-wide IT infrastructure, maintaining system reliability and addressing technical issues promptly to support academic and administrative activities.

- Initiated and implemented several IT system optimizations, resulting in a 15% increase in operational efficiency through improved workflows, upgraded systems, and better integration of internal processes.
- Oversaw key IT projects including system upgrades, cloud migration, and security protocol enhancements.

#### **IT SOLUTIONS & INTERNATIONAL OPERATIONS OFFICER** - Jakarta, Indonesia

Sep 2019 – Oct 2022

Universitas Mercu Buana

- Managed the development and integration of databases for international academic initiatives, ensuring accurate data management and smooth information flow across departments and global partners.
- Provided technical support and hands-on training to administrative staff, improving system usage and productivity. System upgrades and automation processes contributed to a 20% increase in overall efficiency.
- Coordinated international programs such as student exchanges and joint degrees, while maintaining and updating the international relations website to align with institutional branding and support cloud-based integration.

### **EDUCATION**

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#### **BEIJING INSTITUTE OF TECHNOLOGY** – Beijing, China

2022 - 2024

*Master Degree of Computer Science and Technology*

- Awards: Recipient of Chinese Government Scholarship
- Thesis: Research on Indonesian Large Language Models Fine-Tuning for Mental Health
- Participate as a Chair of Election Voting Section, Indonesian Embassy Beijing (Feb–Mar 2024): Oversaw overseas election operations, coordinated with Officials Indonesia Embassy and Election Commission.

#### **UNIVERSITAS MERCU BUANA** – Jakarta, Indonesia

2015 - 2019

*Bachelor of Informatics Engineering*

- Awards: Nominated as Cum-laude Graduate in Faculty, Cumulative GPA: 3.88/4.0
- Thesis: Android Based Mobile Application for Finding Nearby Sports Field and Online

#### **BEIJING INSTITUTE OF TECHNOLOGY** – Beijing, China

2015 – 2019

*Bachelor Degree of Computer Science and Technology*

- Thesis: Android Based Mobile Application for Finding Nearby Sports Field and Online

### **HARD SKILLS, SOFT SKILLS AND LANGUAGES**

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- **Hard Skills:** AI & NLP (PyTorch, TensorFlow, Hugging Face Transformers, GPT, scikit-learn, Pandas, PyCharm), Computer Vision (YOLO, OpenCV, Vision Transformer, CNN, R-CNN, Matplotlib, NumPy), Full-Stack Development (React, Next.js, Node.js, NoSQL, PHP, JavaScript, HTML/CSS), Mobile Development (Java & Kotlin for Android), System Optimization & Data Integration, ERP (Odoo Development), Cloud Integration, Technical Support, Networking Configuration (Mikrotik, LAN, WAN), Graphic & Multimedia Design (Photoshop, Premiere, After Effects), Office & Productivity Tools (Microsoft Word, Excel, Access, PowerPoint, Google Apps Script).
- **Soft Skills:** Analytical and Solution-Oriented Thinking, Collaborative and Team-Driven Approach, Strong Adaptability in Fast-Changing Environments, Clear and Structured Communication, Initiative in Leading and Coordinating Projects, Focused and Organized in Task Execution, Creative Problem Framing, and Empathy in Technical Support and User Interaction.
- **Languages:** English (Professional Working Proficiency), Mandarin Chinese (Basic), Dutch (Basic)