

Bryan Sujoso

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WORK EXPERIENCE

PT. Sentra Proteksi Data Teknologi Indonesia (AI & Full Stack Developer Intern) February 2025 – June 2026
(Official Title: IT Support))

- Further developed and deployed 'Kartini.ai', transitioning a capstone thesis into a corporate AI solution designed to make complex legal, financial, and healthcare information easily accessible for women in Indonesia.
- Architected an end-to-end Retrieval-Augmented Generation (RAG) pipeline that allows expert legal documents to be understood by everyday users.
- Built a custom data ingestion pipeline to process unstructured government PDFs using techniques such as recursive character splitting and multilingual BERT to ensure the model understands the local context.
- Engineered a "Hybrid Search" logic that combines traditional keyword matching with modern vector search, allowing the system to understand even vague or informal user queries.
- Programmed safety guardrails to prevent AI hallucinations by forcing the model to strictly answer from retrieved documents, while guaranteeing that every response includes a clickable citation for verification.

PT. Happy Plastikindo Utama (Operations Optimization Specialist) January 2021 – August 2022

- Modernized a family-owned plastic manufacturing firm during the COVID-19 pandemic by implementing digital tools to ensure the business remained operational during lockdowns.
- Consolidated scattered digital and paper based inventory records into a single, unified dashboard, which gave the ability to track all recorded stock levels in real-time simultaneously for the first time.
- Designed error-proof data entry systems using strict validation protocols via protected cells and dropdowns, which reduced manual errors and improved data accuracy by roughly 40 percent.
- Automated repetitive daily reporting tasks by writing custom scripts in VBA and Python, which successfully reduced the administrative work duration from 3 hours to just 40 minutes a day.

PUBLICATIONS

Automatic File Renaming Using Fine-Tuned BERT and Pattern-Based Entity Extraction on ICISS

- 12th International Conference on ICT for Smart Society (ICISS) 2025 (Confirmed/Forthcoming).
- Developed a hybrid NER system combining a fine-tuned BERT model with Regex, achieving a 0.87 F1-score with 87% accuracy.
- Dockerized and deployed the end-to-end system using Docker and GCP by using Compute Engine for the Backend and Cloud Run for the Frontend.

EDUCATION

Bachelor of Computer Science (Bina Nusantara International) September 2022 - July 2026 (Expected)

- Capstone Project of developing a RAG-based AI agent for women's empowerment.
- GPA: 3.79

Bachelor of Software Engineering (La Trobe University) September 2024 - July 2026 (Expected)

- Double Degree Program: Completed as part of a joint curriculum with BINUS International.

SKILLS

- **Backend & Cloud:** Python (FastAPI/VBA), SQL, Google Cloud Platform (GCP), Nginx & SSL, REST APIs.
- **Frontend:** React, Next.js, Vite, JavaScript, Tailwind CSS, DaisyUI.
- **AI & Machine Learning:** RAG Pipelines, Fine-Tuning BERT, Named Entity Recognition (NER), LangChain, Vector Databases, TensorFlow, PyTorch, NumPy, HuggingFace, Jupyter, Scikit-learn, Pandas.
- **Tools & DevOps:** Git, JIRA, Linux/Unix, Oracle, Unity, Docker, Vercel, AWS (EC2).
- **Programming Languages:** Python, C, C++, C#, Java, HTML5, CSS3, VBA, SQL.
- **Languages:** English (Professional), Indonesian (Native).

ENTREPRENEURSHIP

Bake with Bryan (Owner and Founder) January 2014 - February 2022

- Founded and operated a profitable boutique bakery for seven years from the popularity boom achieved from being a finalist in Master Chef Junior
- Managed multiple aspects of the business from product development to the final delivery.
- Developed a custom inventory system to track ingredients and minimize waste, which helped maintain steady profits despite fluctuating market prices.
- Built a loyal customer base by using social media insights to guide marketing strategies and quickly adapting recipes based on client feedback.