

Bryan Jericho

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Informatics Engineering student at Hasanuddin University (GPA 3.83/4.00) with hands-on experience in LLM evaluation and machine learning research. At GoTo Group, built LLM-as-a-judge evaluations for the Sahabat AI Safety Benchmark and assessed production chatbots for safety and factual accuracy. Currently an AI Researcher Intern at National Chung Cheng University, Taiwan, working on learning-based federated vector search with PyTorch and FAISS. Seeking ML Engineer or Data Scientist roles.

EDUCATION

Hasanuddin University

Bachelor of Informatics Engineering, GPA: 3.83/4.00

Makassar, South Sulawesi

Aug. 2023 – 2027 (expected)

- Member of the Hasanuddin University AI Chatbot Development Team, contributing as a Data Scientist Evaluation.
- Evaluated Large Language Model (LLM) responses and query outputs to assess accuracy, relevance, and safety.
- Implemented Llama Guard-based safety evaluation to identify and mitigate harmful or malicious prompts.
- Performed data annotation and quality assurance processes to improve model performance and response accuracy.

WORK EXPERIENCE

Data Scientist Intern

GoTo Group (PT GoTo Gojek Tokopedia Tbk) - Remote

Sept. 2025 – Mar. 2026

Pasaraya, Jakarta Selatan

- Evaluated 300+ prompts for the Sahabat AI Safety Benchmark using an LLM-as-a-judge framework, assessing model alignment and robustness against harmful inputs.
- Improved GoFood search query recommendation effectiveness from 74% to 92% by validating and labeling complex query data across diverse food categories and spelling variations.
- Conducted comprehensive evaluations of Dira (Customer Service Chatbot), focusing on the metrics of safety, factual correctness, and contextual relevance to mitigate model hallucinations.

AI Researcher Intern

National Chung Cheng University - Onsite

Oct. 2026 – Present

Chiayi, Taiwan

- Researching learning-based federated vector search: predicting per-client retrieval quotas and HNSW search parameters (efSearch) to retrieve the global top-K across distributed clients in a single round, without moving raw data.
- Studying federated learning methods (FedAvg, SCAFFOLD) for training a shared predictor under non-IID client data, with FedVS and FedOS as baselines.
- Implemented FedAvg training and zero-shot onboarding for new clients using PyTorch and FAISS.

LEADERSHIP EXPERIENCE

Google Developer Group on Campus Unhas

Lead

Aug. 2025 – Aug. 2026

Makassar, South Sulawesi

- Managed and engaged a community of 900+ student developers, fostering active participation and collaboration.
- Enhanced the quality of Study Jams by introducing new learning tracks and industry-relevant technology topics.
- Organized and supervised 30+ technology-focused events, workshops, and Study Jams throughout the academic year.
- Expanded members' learning opportunities through partnerships with industry professionals and technical experts.

Informatics Cyber Center Hasanuddin University

Lead

Sept. 2025 – Feb. 2026

Makassar, South Sulawesi

- Led cybersecurity training programs that increased the organization's national finalist qualification rate to 100%.
- Coordinated and supported the execution of cybersecurity competitions, workshops, and community events.
- Guided competitive teams in Capture The Flag (CTF) competitions, contributing to a Top 3 national finish at CTFTIME Indonesia 2025.
- Mentored members in web security, cryptography, reverse engineering, and digital forensics to strengthen technical capabilities.

PROJECTS

MoveAgain | *Python, MediaPipe, Bayesian Network, Computer Vision, React Native*

- Developed a rehabilitation support platform for post-stroke patients by providing guided therapeutic exercises and recovery monitoring.
- Implemented computer vision-based Range of Motion (ROM) analysis using Google's MediaPipe landmark detection to measure patient movement in real time.
- Designed a Bayesian prediction model to estimate rehabilitation progress and recovery outcomes based on patient assessment data.
- Built an end-to-end data processing pipeline for motion analysis, feature extraction, and recovery prediction to assist clinical decision-making.

Multimodal RAG for Academic Chatbot | *Python, PyTorch, Qdrant, Hugging Face (Qwen3-Embedding, jina-clip-v2)*

- Researched two ways of handling images in RAG for Universitas Hasanuddin's academic chatbot: a caption-based approach that converts each image into a text description with a vision-LLM before embedding, and a direct image-embedding approach that encodes images as vectors without converting them to text.
- Built the direct image-embedding system, indexing 214 university PDFs (24,034 text/table chunks and 1,452 images) into separate text and image collections in Qdrant, with parallel retrieval feeding a multimodal LLM that reads the original images when answering.
- Showed empirically that the caption-based system's image vectors were near-identical to its caption embeddings (cosine similarity 0.9999), confirming it relies only on text descriptions and loses visual detail such as diagrams and charts.

TECHNICAL SKILLS

Programming Languages: Python, SQL, JavaScript, TypeScript, Go

ML and Data: PyTorch, FAISS, Hugging Face Transformers, Pandas, NumPy, scikit-learn, Matplotlib, MediaPipe, EDA, Feature Engineering, Classification, Statistical Analysis

AI / LLM: LangChain, LLM Evaluation, LLM-as-a-Judge, Llama Guard, Federated Learning (FedAvg, SCAFFOLD), Vector Search (HNSW)

MLOps and Tools: FastAPI, Docker, Git, Linux, Weights Biases, Jupyter, Google Colab

Databases: PostgreSQL, MySQL, SQLite, Firebase Firestore

HONORS AND AWARDS

Finalist, GEMASTIK XVIII Cyber Security Division — Indonesia's National Student Competition organized by the Ministry of Higher Education (2025)

Taiwan Experience Education Program Awardee (TEEP) 2026 — Ministry of Education Taiwan

2nd Place, Student Category, Pragyan CTF International 2025 — International cybersecurity competition hosted by IIT Roorkee, India

1st Place, DevForge Hackathon 2025 — Hackathon organized by the Informatics Student Union of Ciputra University

CIMB Niaga Scholarship Awardee 2025/2026