

Patrick Amadeus Irawan

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Education

Ph.D. in Natural Language Processing — MBZUAI - UAE · Advisor: Alham Fikri Aji	Aug 2025 - 2029
Global Study Program — University of California, Davis · Specialization: Computational Cognitive Neuroscience, Tech Management	Jul 2023 - Dec 2023
B.Eng. in Computer Science — Institut Teknologi Bandung (ITB) - Indonesia	Aug 2020 - Oct 2024

Publications

WorldCuisines: A Massive-Scale Benchmark for Multilingual and Multicultural VQA on Global Cuisines [Paper/Code] <i>G. Winata*, F. Hudi*, <u>P. Irawan*</u>, D. Anugraha*, R. Putri*, et al.</i>	NAACL 2025 (Best Theme Paper 🏆)
ProxyLM: Predicting Language Model Performance on Multilingual Tasks via Proxy Models [Paper] <i>D. Anugraha, G. Winata, C. Li, <u>P. Irawan</u>, E. Lee</i>	NAACL 2025
Towards Efficient and Robust VQA-NLE Data Generation with Large Vision-Language Models [Paper] <i><u>P. Irawan</u>, G. Winata, S. Cahyawijaya, A. Purwarianti</i>	COLING 2025
Datasheets Aren't Enough: DataRubrics for Automated Quality Metrics and Accountability [Paper] <i>G. Winata*, D. Anugraha*, E. Liu*, A. Aji*, S. Hung, A. Parashar, <u>P. Irawan</u>, et al.</i>	(under review) 2025
Leveraging IoT and Machine Learning for Efficient Rice Stock Monitoring and Prediction [Paper] <i>N. Sutisna, A. Nugroho, C. Jeffrey, <u>P. Irawan*</u>, et al.</i>	APSIPA ASC 2024
SEACrowd: A Multilingual Multimodal Data Hub and Benchmark Suite for Southeast Asian Languages [Paper] <i>H. Lovenia*, R. Mahendra*, S. Akbar*, L. Miranda*, (10+ authors), <u>P. Irawan</u>, et al.</i>	EMNLP 2024

Achievement & Awards

NAACL Best Theme Paper Award Winner	2025
BCG SEA Emeralds Case Competition Winner	2024
Indonesian International Student Mobility Awards @ UC Davis Awardee	2023
CSLeaders Full Education Tuition Scholarship Awardee	2022
DOMO Higher Education Case Competition Finalist	2023
Gemastik XV Data Mining Division Finalist	2022

Work Experience

Research Engineer <i>Singapore Management University</i>	<i>Singapore</i> Feb 2025 – current
<ul style="list-style-type: none"> Part of the Multimodal SEA-Cultured LLM research team provisioned by Prof. Chong-Wah Ngo Leading a team of 3 users on implementing an end-to-end multimodal reasoning data consolidation pipeline (data collection & quality assurance) Researching on method to improve multimodal LLMs' ability to perform static segmentation and video moment segmentation on cultural videos or masked images. 	

Software Engineer

IT Bauschmiede

*Germany, Remote
Nov 2024 – Jul 2025*

- Developed project management system consisting of real-time scheduling, invoicing, and geolocation features for multiple enterprise clients
- Refactored database migration and core controller architecture, reducing processing time by 20% and enhancing system reliability

Data Scientist Intern

Supertype

*Jakarta, ID
Jan – Jul 2023*

- Designed & implemented topic extraction pipeline using sentence-transformers, improving processing speed by 100% and reducing redundancy by 33%
- Optimized Django REST + GCP backend via code refactoring, ensuring 95%+ uptime and increased throughput

Software Engineer Intern

Blibli

*Jakarta, ID
Jun – Dec 2022*

- Expanded 4 commerce checkout services coverage via BDD, producing 150+ novel or improved QA cases
- Optimized Kafka pipeline by implementing distributed programming, boosting test efficiency by 2x

Software Engineer Intern

Ruangguru

*Jakarta, ID
Jan – Apr 2022*

- Developed a coding judge software for 1k+ users using Golang, whose smart scheduling & reminder features boosted task completion rate by 15% compared to legacy tool
- Eliminated code smell and enforced updated design pattern via Golang semantics & templates

Technical Skills

Competent: Python, PyTorch, JavaScript, SQL, GCP, Huggingface, Unix

Familiar: Golang, CUDA, Tensorflow, Java, TypeScript, FastAPI, Django, REST, Flask, Gin, Echo, BigQuery, Looker Studio, Tableau, PowerBI