Filbert Aurelian Tjiaranata

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RESEARCH INTERESTS

I am interested in advancing natural language processing toward developing safe, robust, fair, transparent, and reliable AI systems that understand human language across multilingual and multimodal contexts.

EDUCATION

Universitas Indonesia   Bachelor of Computer Science
#1 University in Indonesia [QS WUR]   Aug 2023 – Jul 2027 (Expected)

- **GPA**: 3.85 / 4.00

RESEARCH EXPERIENCE

System and AI Research Training Program, University of Chicago   Aug 2025 – Jan 2026
International research training program instructed by **Prof. Haryadi Gunawi**, University of Chicago

- Selected as one of the 50 top Indonesian computer science students nationwide
- Reviewed 40+ technical papers from ACL, EMNLP, NAACL, EACL and COLM.
- Reproduced textual Event Extraction paper and brainstormed for future works.

Research Collaboration   Jul 2025 – Present
Remote Research Collaboration with **Asst. Prof. Alham Fikri Aji**, MBZUAI on backdoor attacks and PII (Personally Identifiable Information) leakage in knowledge distillation settings.

SEACrowd Community
A research community dedicated to advancing Southeast Asian-focused AI and empower the next generation of SEA AI researchers, led by **Holy Lovenia**, SIGSEA president.

- Co-author of SEA-VL: A Multicultural Vision-Language Dataset for Southeast Asia
- Contributor of SEA-VL Phase 2: Building Culturally Relevant VLMs for Southeast Asia.

EleutherAI
A grassroots AI research collective focused on interpretability and alignment of large models.

- Contributed to the Multilingual Physical Reasoning Datasets: Shared Task for the MRL Workshop at EMNLP 2025. Responsible for curating and validating the Indonesian portion of the dataset. The datasets are prepared for Global PIQA Benchmark [sigtyp.github.io/st2025-mrl.html].
- Building a large-scale Multilingual Natural Instructions dataset by crawling online forums, Q&A boards, and test databases. Responsible for crawling, cleaning, and validating the Indonesian dataset.

Common Crawl Foundation
A non-profit organization that builds and maintains an open, multi-petabyte repository of web crawl data for public research, analysis, and education.

- Participated in the Shared Task on Improving Language Identification for Web Text from the 1st Workshop on Multilingual Data Quality Signals at COLM 2025 [wmdqs.org/shared-task].
- Contributed to the Common Crawl's web-languages project by adding Indonesian-language websites to expand the representation of it in their web crawl data [github.com/commoncrawl/web-languages].

PUBLICATIONS

○ Samuel Cahyawijaya, Holy Lovenia, Joel Ruben Antony Moniz, Tack Hwa Wong, Mohammad Rifqi Farhansyah, Thant Thiri Maung, ... , **Filbert Aurelian Tjiaranata**, ..., Peerat Limkonchotiwat. Crowdsource, Crawl, or Generate? Creating SEA-VL, a Multicultural Vision-Language Dataset for Southeast Asia. In *Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (ACL)*, 2025. aclanthology.org/2025.acl-long.916

○ **Filbert Aurelian Tjiaranata**, Vallerie Alexandra Putra, Eryawan Presma Yulianrifat, and Ikhlasul Akmal Hanif. BUINUS at IWSLT: Evaluating the Impact of Data Augmentation and QLoRA-based Fine-Tuning for Maltese to English Speech Translation. In *Proceedings of the 22nd International Conference on Spoken Language Translation (IWSLT)*, 2025. aclanthology.org/2025.iwslt-1.26

HONORS AND AWARDS

○ **Scholarship Awardee – National**, Beasiswa Bakti BCA   Jan 2025 – Dec 2025

○ **1st Place – Southeast Asia, Data Analysis Competition**   Oct 2024
  – Data analysis competition by Sepuluh Nopember Institute of Technology
  – Applied time series forecasting to enhance solar power system efficiency

○ **Best Presentation – National, DataQuest Objective Quest**   Sep 2024
  – Data science competition by Airlangga University
  – Finetuned a machine learning model to classify network traffic types

○ **Honorable Mention – Asia Pacific**, **ICPC Regional Asia Jakarta**   Dec 2024

○ **27th Place – National**, **ICPC Indonesia National Contest (Asia Jakarta)**   Oct 2024

○ **Honorable Mention – Asia Pacific**, **ICPC Regional Asia Jakarta**   Dec 2023

○ **19th Place – National**, **ICPC Indonesia National Contest (Asia Jakarta)**   Nov 2023

○ **2nd Place – University**, **Data Competition**, RISTEK Fasilkom UI   Nov 2023

○ **39th Place – National**, **OSN Informatics (Indonesian Olympiad)**   2022

○ **4th Place – Provincial**, **OSN Informatics (Indonesian Olympiad)**   2022

○ **1st Place – City Level**, **OSN Informatics (Indonesian Olympiad)**   2022

○ **1st Place – City Level**, **OSN Informatics (Indonesian Olympiad)**   2021

WORKING EXPERIENCE

Programming Coach, Kokocoder   Jul 2023 – Oct 2025
○ Conducted weekly private sessions covering basic to intermediate competitive programming concepts.
○ Co-lead six one-week Informatics Olympiad training bootcamps, mentoring 13 gold, 17 silver, and 29 bronze medalists in OSN Informatics (Indonesian Olympiad) over three years of the program.

AI R&D, Fungsitama Cipta Teknologi   Jan 2025 – Mar 2025
○ AI Research and Development Intern working on ERP-related AI solutions.
○ Integrated Chatbot APIs to dynamically generate SQL queries for real-time data retrieval.
○ Integrated Vision-Language Models (VLMs) to automate employee registration from ID documents.
○ Built a retrieval-based search feature, reducing material group input errors by 90%.

Teaching Assistant, Universitas Indonesia Jul 2024 – Dec 2024

- Teaching Assistant for Discrete Mathematics (60+ students) in the Faculty of Computer Science.
- Collaborated with lecturers to support assessments and student learning.
- Created assignments and solutions to reinforce core theoretical concepts.

LEADERSHIP & SERVICE

Expert Staff, Data Science Academy, Compfest Feb 2024 – Sep 2024

- Responsible for developing the Data Science Academy curriculum.
- Helped evaluate over 600 applicants based on programming and data science skills.
- Reached out to 10+ data science professionals, securing 5 speakers, judges, and mentors.

Student Mentor, DDP 0 Jun 2024 – Sep 2024

- Student Mentor for first-year Faculty of Computer Science, Universitas Indonesia students in introductory programming.
- Led 4 offline sharing sessions and assigned problems to strengthen computational thinking.
- Provided academic guidance and peer support to help students adapt to university life.

Student Mentor, UKM KMBUI Jun 2024 – Sep 2024

- Introducing university life and academic opportunities at Universitas Indonesia.
- Mentored students from diverse majors in transitioning to campus life.

Volunteer, Foster Village Project (Dusun Krecek) Aug 2024

- Contributed to the digital promotion of a local village as a tourist destination.
- Helped organize educational events covering health, financial literacy, and community awareness.

SKILLS

Language	Indonesian (Native), English (Fluent, IELTS Band 7.5), German (B1).
Programming Language	Python, C++, Java, SQL, HTML, CSS, JavaScript
AI/ML Libraries	PyTorch, pandas, NumPy, scikit-learn, Matplotlib, Hugging Face Transformers

REFERENCES

Prof. Haryadi Gunawi UChicago-Indonesia research instructor
Professor, Department of Computer Science, University of Chicago
Email: haryadi@cs.uchicago.edu
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Asst. Prof. Alham Fikri Aji Research Collaborator
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