

# Muhammad Zuhdi Fikri Johari

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Research Interest	Software Engineering, Data Engineering, Data Discovery, Information Extraction	
Education	<b>Amikom University</b> , DI Yogyakarta, Indonesia	2022-2025 ( <i>expected</i> )
	Bachelor of Informatics Specialization: Software Engineering, Data Engineering, GIS GPA: Overall 3.90/4.0	
	<b>Amikom University</b> , DI Yogyakarta, Indonesia	2018-2021
	Associate of Informatics Engineering Specialization: Recommender Systems, Data Engineering GPA: Overall 3.95/4.0	
Selected Publications	Kumara Ari Yuana, Kusrini Kusrini, Arief Setyanto, Arif Dwi Laksito, Zauvik Rizaldi Maruf, <b>Muhammad Zuhdi Fikri Johari</b> , et al. <i>GIS data support technique for forest fire management and decision support system: A Sebangau National Park, Kalimantan case</i> . 6th International Conference on Information and Communications Technology, 2023 (ICOIACT '23).	
	Arif Dwi Laksito, Kusrini Kusrini, Arief Setyanto, <b>Muhammad Zuhdi Fikri Johari</b> , et al. <i>Machine Learning and Social Media Harvesting for Wildfire Prevention</i> . 13th International Conference on Pattern Recognition Systems, 2023 (ICPRS '23).	
	Kumara Ari Yuana, Kusrini Kusrini, Arief Setyanto, Arif Dwi Laksito, Zauvik Rizaldi Maruf, <b>Muhammad Zuhdi Fikri Johari</b> , et al. <i>Monte Carlo Method For Map Area Calculation In Wildland Fire Map Management</i> . 6th International Conference on Information Technology, Information Systems and Electrical Engineering, 2022 (ICITISEE '23).	
	<b>Muhammad Zuhdi Fikri Johari</b> and Arif Dwi Laksito. <i>The Hybrid Recommender System of the Indonesian Online Market Products using IMDb weight rating and TF-IDF</i> . <i>Rekayasa Sistem Dan Teknologi Informasi Journal</i> , 2021 (RESTI): 5(5), 977 - 983.	
Research Involvement	<b>International Research Collaboration on NLP-Data Collecting</b>	Nov 2022-Present
	International undergraduate research collaboration on Natural Language Processing (NLP) . <ul style="list-style-type: none"><li>• Collaborating with Prof. Derry Wijaya of Boston University, Dr. Kumara Ari Yuana, and Mr. Arif Dwi Laksito of Amikom University.</li><li>• International Research Collaboration on language preservation of Indonesian local languages through natural language processing research areas.</li><li>• Building platforms to support the efforts of Collecting and Digitizing the datasets of Indonesian Local Language Resources.</li><li>• Funded by the Indonesian Ministry of Education, Culture, Research, and Technology (MoECRT) ACE Open Research program, collaborating with the Indonesia Endowment Fund for Education (LPDP). Part of the US-Indonesia collaboration program.</li></ul>	
	<b>SILVANUS Project</b>	2022-2024
	Part of the Amikom research team . Worked as a Research Programmer. <ul style="list-style-type: none"><li>• Project Leader: Prof. Kusrini of Amikom University.</li><li>• Research focuses on Computational Geo/Environmental Science for WildFire and Forest Management. Work with various data forms related to remote sensing and spatial-geography data processing. Research funded by EU Horizon 2020.</li><li>• Building the backend system side of: platforms to visualize the result of a Bayesian model from map area calculation; time series-based satellite raster image calculation processing for specific analysis.</li><li>• Building data pipeline processing to compile data comes from various type and source, such as WorldBank, ECMWF Copernicus, Dataspace Copernicus (Sentinel), USGS EO, etc.</li></ul>	

Industry Experience	<b>PT Global Data Inspirasi (Datains)</b>	July 2021-Oct 2022
	Data Engineer <ul style="list-style-type: none"> <li>• Being data provider for ML engineers, Data scientists, and Data analyst teams, ensuring the robustness of data pipeline and processing.</li> <li>• Mainly working on data related with social media, geospatial, e-commerce, and social governmental.</li> </ul>	
	<b>PT Global Data Inspirasi (Datains)</b>	Sept 2020-Jan 2021
	Intern. Data Engineer <ul style="list-style-type: none"> <li>• Handled the data preparation steps for computer vision modeling tasks.</li> <li>• Gained the basic data engineer task of integrating process from upstream to downstream with Extract-Transform-Load (ETL) concept.</li> </ul>	
Teaching Experience	AMIKOM DT019 Operating Systems, <i>Lab. Teaching Assistant</i>	Sept 2019-Feb 2020
Community Involvement	AMIKOM Assoc. Informatics Student Association, <i>Act. Lead RnD Division</i>	2019-2021
	AMIKOM Islamic Student Unit, <i>Regeneration Division</i>	2019-2021
	AMIKOM Ramadhan at Campus, <i>Lead Event Division</i>	April 2020
	AMIKOM Student Bootcamp, <i>Event Chairman &amp; Mentor</i>	December 2019
	AMIKOM Muslim Students Jamboree, <i>Event Chairman</i>	December 2019
Technical Skills	<b>Programming Languages:</b> Python, Javascript, Ruby, Shell Scripting. <b>Cloud Platforms:</b> GCP, AWS, Azure, IdCloudHost. <b>Databases:</b> MySQL/MariaDB, PostgreSQL, Elasticsearch (ELK), Redis, MongoDB, HDFS. <b>Fullstack:</b> Vue(Vite), Flask, SQLAlchemy, Jekyll. <b>Libraries and Tools:</b> Pentaho, GDAL, Rasterio, QGIS, Shapely, Cdsapi, Geomesa, Geoserver.	
References	<b>Derry Tanti Wijaya</b> Assistant Professor, at Boston University. Collaborator Professor for the US-Indonesia ACE Open Research Project.	<i>wijaya@bu.edu</i>
	<b>Kusrini</b> Professor, Director of Postgraduate Studies at Amikom University. Research team leader for the SILVANUS project at Amikom University.	<i>kusrini@amikom.ac.id</i>