

Hubungi

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Keahlian Teratas

C#  
Windows Communication  
Foundation (WCF)  
Microsoft SQL Server

Certifications

Algorithm and Basic Programming  
Class  
Introduction to Data Science with R  
Python Programming Class for  
Beginners  
Google Data Analytics Specialization  
IT Support Google Specialization

Honors-Awards

Semifinalists  
Garuda Academic Research and  
Excelece 2022 & 2023 Awardee  
Top 4 Best Paper ICoDSA 2024

Publications

Comparative Analysis of  
Transformer Models in Object  
Detection and Relationship  
Determination on COCO Dataset  
NAPER: Fault Protection for Real-  
Time Resource-Constrained Deep  
Neural Networks  
Beyond Benchmarks: Assessing  
Knowledge Graph Completion  
Methods on Non-Benchmark  
Employee Data  
Public Transportation Ontology-  
Based Question Answering System  
in Bandung City using Naïve Bayes  
via Telegram Bot

Arya Fikriansyah

Software Developer | AI/ML Engineer  
Jakarta Selatan, Jakarta Raya, Indonesia

Ringkasan

Software Developer at MedcoEnergi E&P Indonesia with 1+ years of enterprise application development experience, specializing in system modernization and digital transformation within the oil & gas industry. My expertise encompasses comprehensive authentication systems, AI-powered OCR solutions, legacy system migration, and standardized development frameworks using ASP.NET MVC, C#, and enterprise integration platforms.

I consistently deliver innovative solutions including single sign-on authentication systems with multi-factor authentication, computer vision-based document processing, and automated testing frameworks that enhance business processes and operational efficiency. Combining strong technical proficiency across multiple technologies (C#, Python, SQL Server, Azure AD OAuth, LDAP) with my academic background in Computer Science (GPA: 3.94/4.0), I focus on creating scalable solutions that deliver measurable value to stakeholders while ensuring security compliance and system reliability.

Currently contributing to digital transformation initiatives through modern development practices, agile methodology, and cross-functional collaboration across various departments.

Pengalaman

Medco E&P Indonesia  
Software Developer  
Juni 2024 - Present (1 tahun 7 bulan)  
South Jakarta, Jakarta, Indonesia

Medco E&P Indonesia is one of Indonesia's leading oil and gas companies, operating multiple oil and gas blocks across the country while maintaining high standards in operational excellence and environmental responsibility.

Working as a Software Developer through Kairos Utama Indonesia in the Digital Information Technology team, specializing in enterprise application development and system modernization. Primary focus on developing robust web applications using ASP.NET MVC 4.8, C#, WCF services, and K2 workflow integration following agile methodology and CI/CD practices.

Key Achievements:

- Designed and implemented comprehensive single sign-on (SSO) authentication system integrating LDAP, Azure AD OAuth 2.0, and Google Authenticator with conditional multi-factor authentication flows, enabling seamless user experience across enterprise applications with automatic user type detection and configurable security policies
- Built dual OCR validation systems: developed custom Python computer vision model for KTP data extraction ensuring PDP compliance in personnel registration, and implemented OpenAI API-integrated invoice processing system streamlining finance operations and reducing manual input errors
- Successfully led migration of 15+ legacy ASP.NET WebForms VB applications to modern ASP.NET MVC 4.8 C# architecture, implementing performance optimization and ensuring long-term maintainability
- Developed standardized enterprise project templates (ASP.NET MVC Web Applications, WCF Services, Console Applications) establishing consistent development patterns and reusable component libraries across the organization
- Created comprehensive automated testing framework using Selenium with continuous integration practices, enhancing QA efficiency and ensuring rapid issue resolution
- Maintained multiple enterprise applications using ASP.NET MVC 4.8, C#, WCF services, SQL Server, and MySQL databases, driving business process automation across various departments

University of Central Florida

Research Assistant

November 2022 - Mei 2024 (1 tahun 7 bulan)

Orlando, Florida, United States

The University of Central Florida (UCF) is a leading research university in the United States, with the Department of Computer Science consistently ranking among the top institutions in cyber security and real-time systems research. The Garuda Ace Project, funded by the Indonesian Ministry of Education, represents a significant international collaboration focusing on advancing edge computing technologies.

Working directly under Prof. Yan Solihin's supervision, I contributed to groundbreaking research in Deep Neural Networks optimization for resource-constrained environments, focusing on enhancing performance while maintaining system reliability and accuracy.

#### Key Contributions:

- Co-developed NAPER (Neural Architecture Performance Enhancement in Resource-constrained environments), achieving 36.5% faster inference while maintaining 5.6% higher accuracy compared to conventional approaches
- Contributed to 6 IEEE-indexed research papers, advancing the field of efficient DNN
- Delivered 2 presentations at international conferences, sharing findings with the global research community
- Analyzed and implemented methodologies for bit flip attack analysis in DNNs
- Participated in weekly research discussions and collaborative workshops with international team members

### Telkom University

9 bulan

#### Laboratory Assistant at IoT Studio

Mei 2023 - Januari 2024 (9 bulan)

Bandung, West Java, Indonesia

The IoT Studio at Telkom University is a specialized research laboratory dedicated to advancing Internet of Things (IoT) technology through practical education and innovative research. The lab serves as a critical hub for students and researchers exploring IoT applications in both academic and industrial contexts.

As Laboratory Assistant, I played a dual role in educational development and laboratory management, focusing on creating comprehensive learning resources while ensuring efficient operation of laboratory resources.

#### Key Responsibilities:

- Developed and coordinated the NodeMCU Study Group program, creating structured learning paths for IoT development
- Designed and implemented practical tutorials covering NodeMCU programming, sensor integration, and real-world IoT applications
- Created comprehensive documentation and learning materials that became standard references for new laboratory members
- Managed laboratory finances and inventory as Treasurer, ensuring optimal resource allocation
- Mentored junior laboratory members in IoT project development and implementation
- Organized and facilitated regular workshops and training sessions for students

### Data Collection Analyst at Directorate of Career, Alumni and Endowment

Juli 2023 - Agustus 2023 (2 bulan)

Bandung, West Java, Indonesia

The Directorate of Career, Alumni and Endowment at Telkom University manages critical relationships with alumni while providing strategic insights for university development through comprehensive data analysis and stakeholder engagement.

Developed and implemented an automated data collection system using Python and Selenium to efficiently gather alumni career information from LinkedIn, followed by comprehensive data analysis to support strategic decision-making in curriculum development and career services.

#### Key Achievements:

- Engineered automated web scraping solution using Selenium to collect career data of 5,000+ alumni from LinkedIn
- Developed data processing scripts in Python to clean and structure over 50,000 data points of alumni career information
- Created interactive dashboards to visualize alumni career trajectories and employment trends
- Presented comprehensive analysis to university leadership, providing actionable insights for curriculum improvements
- Significantly reduced manual data collection effort through automation, improving efficiency of alumni tracking process

Multimedia University  
Exchange Student

April 2021 - Juni 2021 (3 bulan)

Cyberjaya, Selangor, Malaysia

As an exchange student at Multimedia University during the COVID-19 pandemic, I participated in a specialized remote learning program focused on biotechnology and bioinformatics. I mastered essential bioinformatics tools including BLAST, CLUSTAL, GenBank, Swiss-Model, and MEGA, applying them in practical research scenarios.

During the program, I collaborated on three international projects with students from different countries, analyzing biological data and implementing bioinformatics methodologies. Despite the remote learning environment, I maintained active participation in virtual laboratory sessions and research discussions, gaining hands-on experience with bioinformatics software and data analysis techniques.

This experience broadened my understanding of international research practices and strengthened my ability to collaborate effectively in virtual environments. The program provided valuable exposure to cutting-edge biotechnology research while establishing connections with peers in the international scientific community.

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## Pendidikan

Universitas Telkom

Bachelor's degree, Informatics · (September 2020 - Januari 2024)

SMA NEGERI 1 CIANJUR

Ilmu Alam (Natural Sciences) · (Juli 2017 - Juli 2020)