Fadhil Umar Al Farouq

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Professional Summary

Results-driven IT professional with an Electrical Engineering background, graduating Cum Laude from the University of Indonesia in just 3.5 years. I am adept at leveraging Data Intelligence, Cloud Computing, and Machine Learning/Generative AI to drive innovation and solve complex business challenges. Recognized with international certifications, scholarships, and awards from prestigious providers, I excel in researching, designing, and implementing cutting-edge IT solutions—from data management and application development to AI integration and cloud migration. I thrive in dynamic, collaborative environments and continuously seek opportunities to learn, innovate, and drive growth.

Skills

Machine Learning, Deep Learning, Generative AI, Data Engineering, Data Science, Data Analysis, Full Stack Developer, AWS, GCP, TensorFlow, PyTorch, Hugging Face, LangChain.

Work Experience

IT ARCHITECT | FEBRURARY 2025 – PRESENT
Bank bjb | Bandung, West Java

- Conducted research and development for 5 key enterprise IT initiatives, including internal Generative AI, ATM & CRM monitoring systems, source code management for IBM iSeries, OpenShift virtualization, and IT asset management with CMDB integration.
- Supported cloud migration projects for 3 mission-critical systems—BJB Fast, DIGI by Bank bjb, and Internet Banking Corporate—enhancing operational efficiency and scalability.
- Designed and implemented a Change Advisory Board Application that streamlines change documentation and ensures compliance, reducing operational risks.

IT FUTURE LEADER DEVELOPMENT PROGRAM | AUGUST 2024 – FEBRURARY 2025
Bank bjb | Bandung, West Java

- 1 month of online training focused on company insights and business knowledge and 6 months of onsite training covering both technical and soft skills development.
- Invested over 70 days in AWS onsite training, with 100+ hours on AWS Skill Builder—achieving 3 AWS Certifications, 8 Knowledge Badges, and all 8 Cloud Quest Badges.
- Attended 10+ leadership and communication sessions through Inlingua WSCC, significantly boosting professional growth.
- Finished as the 2nd highest scoring participant and led the Best Final Project Team Award-winning initiative, developing the Credit Line Management System (CLMS) to reduce operational risk via digitalization, integration, and automation.

ARTIFICIAL INTELLIGENCE ENGINEER | MARCH 2024 – JUNE 2024
Angusta Systems | Remote

· Developed a computer vision-based remote oral health assessment that reduced dental visits by up to 50% while maintaining optimal oral health.
· Executed proof-of-concept projects for 3 healthcare LLM applications including clinical notes extraction, RAG-driven content generation, and speech-to-text consultation—driving future product innovation.

DIGITALIZATION ENGINEER | FEBRUARY 2023 – AUGUST 2023
PT. Mitsubishi Krama Yudha Motors and Manufacturing | Bekasi, West Java

· Developed an OEE Monitoring Dashboard and Maintenance System by utilizing SCADA as a company-wide digitalization effort, contributing to a 12% increase in asset productivity across two production lines.
· Designed 10+ interactive web dashboards and forms using ICONICS for comprehensive OEE monitoring, allowing real-time analysis, data collection, and troubleshooting for production losses.

Organization

HEAD OF ACADEMIC AND PROFESSION DIVISION | DECEMBER 2021 – DECEMBER 2022
Ikatan Mahasiswa Elektro (IME) FTUI 2022 | Depok, West Java

· Led a 20-member team to advocate the academic and postgraduate needs of 500+ electrical engineering students.
· Conducted 7 work programs and implemented 6 habits, including alumni sharing sessions and certification initiatives, enhancing student engagement and career development opportunities.

Education

BACHELOR OF ENGINEERING IN ELECTRICAL ENGINEERING | AUGUST 2020 - MARCH 2024
University of Indonesia | GPA : 3.67 (CumLaude) | Depok, West Java

· **Thesis** : Optimizing Long-Term Biomass Supply Chains: A Deep Learning and Mixed Integer Linear Programming Approach
· **Remarks** : One year contract as lecturer's assistant for electrical physics course

AWS ML/AI SCHOLARSHIP WINTER COHORT 2023 | OCTOBER 2023 - DECEMBER 2023
AI Programming with Python Nanodegree | Remote

· Selected as one of 2000 awardees worldwide through international selection process.
· Developed a CLI application for dog breed classification and flower classification utilizing PyTorch with best practices to achieve state-of-the-art performance

AWS ADVANCED ML/AI SCHOLARSHIP COHORT 2024 | APRIL 2024 – JUNE 2024
AWS Machine Learning Fundamentals Nanodegree | Remote

· Selected as one of 500 awardees worldwide through the pool of alumni from previous program.
· Developed an end-to-end ML Workflow in AWS Setting utilizing training jobs, endpoints, lambda function, and step function for tailored for business use case.

Certifications

AWS CERTIFIED SOLUTIONS ARCHITECT - ASSOCIATE | MARCH 2025

AWS Training and Certification | Cloud Architecture Design, AWS Core Services Proficiency (EC2, S3, RDS, etc.), Scalable System Design, Fault-Tolerant Solutions, Cost Optimization, Security Best Practices.

AWS CERTIFIED MACHINE LEARNING ENGINEER - ASSOCIATE | DECEMBER 2024

AWS Training and Certification | Data Preparation, Feature Engineering, Model Training, Model Evaluation, Hyperparameter Tuning, Model Deployment, Model Monitoring, Sage maker Pipelines, AI Services Integration, ML Security, Bedrock Use Cases.

AWS CERTIFIED CLOUD PRACTITONEER | DECEMBER 2024

AWS Training and Certification | AWS Cloud Fundamentals, Core AWS Services Understanding, Cloud Architecture and Adoption Best Practices, Cloud Security, Compliance, Pricing, And Billing Management.

GOOGLE DATA ANALYTICS | OCTOBER 2023

Coursera | Data Collection, Data Cleaning, Data Visualization, Data Ethics, R Programming, Dashboard

GOOGLE IT AUTOMATION WITH PYTHON | AUGUST 2023

Coursera | Python, Scripting, Automation, Cloud, Git, Shell

DEEPLEARNING.AI TENSORFLOW DEVELOPER | MAY 2023

Coursera | Neural Network, Deep Learning, TensorFlow, Computer Vision, Forecasting, NLP

DEEPLEARNING.AI DEEP LEARNING SPECIALIZATION | APRIL 2023

Coursera | Neural Network, Deep Learning, Computer Vision, Diffusion, LLM, NLP

IBM DATA SCIENCE PROFESSIONAL CERTIFICATE | FEBURARY 2023

Coursera | Data Collection, Data Cleaning, Data Wrangling, Data Visualization, Web Scraping, API, Dashboard, SQL, Machine Learning