

# AINUR AFIFAH AMRI

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## SUMMARY

Highly skilled Python Developer with over three years of experience in system support and machine learning in Malaysia, now based in Thailand. Proficient in data migration, interfacing lab machines, and developing mobile UI applications. Demonstrated expertise in managing comprehensive data collection, implementing advanced computer vision solutions, and translating research into practical applications. Strong collaboration and problem-solving abilities, evidenced by effective communication with clients and seamless integration of solutions. Holds a Master's degree in Computer Science, with a focus on deep learning and imbalanced class data, complemented by multiple journal publications. Key skills include Python, SQL, data analysis, machine learning, statistical analysis, HTML, CSS and JavaScript.

## PROFESSIONAL EXPERIENCE

### PYTHON DEVELOPER & SYSTEM SUPPORT

Petaling Jaya, MY

Clicque Technology

April 2021–April 2024

*General Hospital Lab Information Management System*

- Spearheaded the successful data migration for 7 laboratory sub-modules using Python, SQL, and API calls, meticulously tracking progress in Excel and providing critical insights to guide client decisions, resulting in a seamless transition.
- Coordinated the seamless interfacing of 11 lab machines with the system for data transfer, augmentation, and mapping using Python and ASTM protocol, ensuring accuracy and efficiency. Tracked code changes and fostered collaboration through GitHub, enhancing project transparency.
- Led the gathering and consolidation of audit log feature requirements, promoting effective communication between development teams and clients across three distinct workflows, and identifying key commonalities to streamline processes.
- Proactively investigated and resolved bugs using Excel and JIRA for precise issue tracking, facilitating clear and effective communication between clients and the development team, leading to timely and efficient problem resolution

### FRONTEND DEVELOPER

Kuala Lumpur, MY

Fristor Technologies

Sept 2020–April 2021

*Baby Delivery Tracking System*

- Engineered a high-performance mobile UI for a baby delivery tracking system using HTML, CSS, and JavaScript, significantly enhancing data tracking procedures and optimizing hospital workflow efficiency.
- Spearheaded the documentation and consolidation of comprehensive project requirements, including detailed cost breakdown analysis, using Microsoft Word and Excel, ensuring project alignment and stakeholder satisfaction.
- Developed an advanced mobile UI for an IoT subproject with Kotlin, driving innovation and enhancing the user experience for cutting-edge technology applications.

## MACHINE LEARNING ENGINEER

Saratix

Kuala Lumpur, MY

Nov 2019–July 2020

### *Human Posture Recognition*

- Led a major initiative in data collection and annotation for real-life image data, successfully implementing Detectron2 to enhance computer vision accuracy for optimal T-shirt size recommendations, and forged a strategic partnership with a local university to develop a state-of-the-art recommendation system.
- Transformed complex research findings into practical, high-impact solutions using Python and Google Colab, ensuring flawless integration and significant improvements in application performance.
- Completed an intensive 2-month training program in Machine Learning and Deep Learning, gaining advanced skills that directly contributed to innovative and effective solutions in real-world projects.

## EDUCATION

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### International Islamic University Malaysia

Master of Computer Science

Kuala Lumpur, MY

May 2018

Thesis: *Evolutionary Deep Belief Networks with Bootstrap Sampling for Imbalanced Class Data*

### International Islamic University Malaysia

Bachelor of Computer Science

Kuala Lumpur, MY

May 2015

FYP: *Predicting the Protein Localization Sites Using Back Propagation Algorithm*

## KEY SKILLS

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Python Development (pandas, numpy, scikit-learn, streamlit, tensorflow)

SQL

Data Analysis & Visualization (matplotlib, seaborn)

Machine Learning (Artificial Neural Networks, Deep Learning)

Statistical Analysis

Web app development (HTML, CSS, JavaScript)

## JOURNAL PUBLICATIONS

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**Evolutionary Deep Belief Networks with Bootstrap Sampling for Imbalanced Class Datasets,**

International Journal of Advances in Intelligent Informatics

2019

**Comparative Performance of Deep Learning and Machine Learning Algorithms on Imbalanced Class Handwritten Data,**

International Journal of Advanced Computer Science And Application

2018

**Convolutional Neural Networks and Deep Belief networks for Analysing Imbalanced Class Issue in Handwritten Dataset,**

International Journal on Advanced Science, Engineering and Information Technology

2017