



YAP WEI HAU

Telephone: +65 8913 9286 | Email: 1weslyyap1@gmail.com | LinkedIn: [wei-hau-yap](#) | Github: [weslyyap](#)

SKILLS & ABILITIES

Familiar with programming (Python, C#, NI LabVIEW)

Data Manipulation & Visualization (Numpy, Pandas, Matplotlib, MySQL)

Machine Learning/Artificial Intelligence (Sci-kit Learn, Neural Network, Generative Adversarial Network)

Exposure to web app deployment on Cloud (Streamlit, Heroku, Render)

NOTABLE PROJECTS

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| Jan 2023 | <ul style="list-style-type: none">• Wine Cultivars Class Classifier Model • Personal Project• Ran exploratory data analysis (EDA) on the two datasets from Kaggle• Merge two different datasets and trained Machine Learning model to predict wine cultivars• Deployed the interactive web app and hosted onto the cloud using Render |
| Oct 2022 | <ul style="list-style-type: none">• Optical Character Recognition using Neural Networks • Personal Project• Integrated neural networks architecture and trained a model that can recognize handwritten digit MNIST database• Reuse the trained model (Transfer Learning) for another new model to handle real time handwritten digit recognition |
| June 2020 | <ul style="list-style-type: none">• Security Analysis and Construction of Confidence Bits on a Secured Iris Recognition System • Final Year Project• Enhance iris recognition system by generating an additional layer of confidence on the CASIA iris dataset• Performance evaluation between initial model and enhanced model by performing genuine and impostor comparisons through FAR and FRR |

CAREER EXPERIENCE

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| Mar 2022-Present | <ul style="list-style-type: none">• RnD Engineer • Akribis Systems Pte Ltd• Develop C# PC based app for laser measurement equipment data acquisition• Data manipulation & visualization of raw test data by utilizing Numpy, Pandas and Matplotlib libraries• Data cleaning of all test data sets before storing into MySQL local database• Tulip visualization web app interfacing with MySQL directly• Ensure smooth data pipeline between Tulip and MySQL, allowing two way interactions• GitHub implementation for CI/CD |
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| June2020 - Feb2022 | <ul style="list-style-type: none"> · LabVIEW Programmer • Fuji Master Engineering Sdn. Bhd · NI LabVIEW software coding development with real time data logging feature for Functional Testers/Automated testing · Data cleaning for test data sets before store in MySQL local database via TCP/IP · Python OpenCV for in house Vision System development · Vision Builder for Automated Inspection (VBAI) from National Instruments |
| Oct 2018 - Jan 2019 | <ul style="list-style-type: none"> · Internship at Injection Molding and Precisioning company · Data collection from machines to analyze the performance of products · Performance evaluation through Process Capability Index (Cpk) methodology · Fatigue test of products through Gage Repeatability and Reproducibility (R&R) |

EDUCATION& CERTIFICATES

June 2016-June 2020	<i>Bachelor of Engineering (Honours) Mechatronics Engineering, Universiti Tunku Abdul Rahman, Malaysia</i> CGPA: 3.4974
Oct 2019	UTAR Academic President's List
Oct 2017, May 2018, Jan 2019	UTAR Academic Dean's List

CO-CURRICULAR ACTIVITIES

June 2017	ICE SC Leadership and Team Building Camp <ul style="list-style-type: none"> · Improve my communication skills with new friends as well as boosting my self-esteem · Learn to work with peoples from different universities, thus building teamwork
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ADDITIONAL INFORMATION

	<ul style="list-style-type: none"> · Fluent in English, Mandarin, Malay and German (A1 Level) · Passionate in self-improvement in various aspects, e.g., participating in Coursera and Udemy courses.
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