

# AHMAD ASHRAF BIN HASSAN

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Kuala Lumpur.



## WORK EXPERIENCE

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### Data Engineer (Sep 2025 – Present)

AEM Energy Solutions Sdn. Bhd. | PETRONAS Carigali Sdn Bhd

- Data Engineer with hands-on experience building ETL pipelines using Azure Document Intelligence, Python, and Pandas.
- Skilled in transforming unstructured PDFs into structured datasets (JSON, CSV, Excel) for downstream analytics.
- Strong background in data cleaning, validation, and workflow automation for large-scale document processing.
- Experienced with cloud-based AI services, Git, and Azure DevOps for scalable data solutions.

### Data Processing Engineer (Aug 2022 – Sep 2025)

Terra Drone Technology Malaysia Sdn. Bhd.

- Leading Telco 2D drawing projects using AutoCAD.
- Processed high-resolution drone imagery into structured datasets using Python and GIS tools.
- Automated photo uploads, tagging, and metadata extraction using AWS S3 and Lambda.
- Cleaned and organized geospatial photo data for mapping and project analytics.
- Delivered processed site data to clients and internal dashboards for tower inspections and progress tracking.

### Software Developer (Freelance)

Hazasy Enterprise

- Built and maintained backend systems using Python and Laravel, focusing on performance and reliability.
- Developed RESTful APIs to streamline frontend-backend integration.
- Designed MySQL schemas and optimized queries for data integrity and speed.
- Used GitHub Desktop for version control, managing branches, commits, and pull requests.
- Practiced Agile workflows (scrums, sprint planning) for timely delivery.
- Created technical documentation for system architecture and codebase.

### Engineer/Senior Engineer, Data Analytics (Aug 2018 – Aug 2022)

Aerodyne Group

- Track record of successful project leadership and technical inspections.
- Creates tower drawings using AutoCAD for detailed reports.
- Conducts data processing and analysis to support various projects.

## SKILLS & ABILITIES

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### Computer Skills

- Python, PHP Laravel, CSS, DBMS, SQL, MySQL, Apache Airflow, Apache Spark, Git, AutoCAD

### Languages

- Malay – Native
- English – Proficient

## EDUCATION

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### Data Engineering Associate Program (June 2022 – Aug 2022)

Fusionex Group (Yayasan Peneraju)

### Digital Leadership Development (June 2022 – June 2022)

Peopleology Group (Yayasan Peneraju)

### Bachelor of Aircraft Engineering Technology (Hons) in Mechanical (July 2014 – June 2018)

Universiti Kuala Lumpur, MIAT

## ACHIEVEMENTS & PROJECTS

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### ETL Automation Pipeline – PEDMS Project (PETRONAS Carigali Sdn Bhd)

Azure DevOps, Azure Document Intelligence, Python | September 2025

- Developed an end-to-end ETL automation pipeline to process engineering drawings and convert unstructured PDFs into structured datasets.
- Implemented Azure Document Intelligence to detect, cluster, and extract key metadata (title, revision, sequence number, sheet number, dates, and statuses).
- Automated the transformation workflow: JSON → CSV → cleaned CSV → Excel outputs, ensuring consistent and validated data.
- Built data cleaning and normalization logic using Python and Pandas (regex-based field standardization, missing value handling, sheet numbering).
- Delivered curated, analysis-ready datasets for downstream reporting and integration into enterprise systems.
- Optimized pipeline performance with batch processing, modular scripts, and error handling to ensure reliability and scalability.

### Financial Web Application

Laravel, Tailwind CSS, MySQL, Livewire, Alpine.js | July 2025

- Built a full-featured financial web app to manage cooperative loans and repayments.
- Implemented dynamic loan creation with auto-calculated terms, due dates, and principal values.
- Integrated AJAX-powered customer search for seamless user experience.
- Designed a responsive admin dashboard with role-based access and agent/customer management.
- Leveraged Tailwind and Alpine.js for modern, reactive UI components.