



## JOB REFERENCE LETTER

The undersigned:

Name : Teguh Ari Wibowo  
Position : Division Head of Information Technology  
Company : PT MNC Tourism Indonesia, Tbk  
Address : Jakarta

Hereby certifies that:

Employee Name : Hasan Abdulloh  
Last Position : IT Developer (Internship)  
Period of Internship : September 2025 to April 2026

He is a true an Internship in our company and has demonstrated excellent performance during his Internship.

During his Internship, he has demonstrated exceptional skills and accomplishments across multiple areas of technology, including:

- **Software Development** – Skilled in designing and developing high-quality applications using multiple programming languages. His experience includes building Java applications using **NetBeans**, developing robust **Flutter** apps, and creating a **Python GUI interface for object defect detection**, integrating machine learning models for real-time processing.
- **Web Development** – Experienced in building, maintaining, and improving modern and responsive websites. During his internship, he worked extensively with:
  - **Laravel 10**
  - **PHP 8.2**
  - **MariaDB**
  - **Composer.2**His responsibilities included **fast bug fixing**, UI refinements, backend adjustments, and overall system optimization. He also developed and deployed his own **TypeScript + React portfolio website**, which uses **Supabase** for database and backend support.
- **Artificial Intelligence (AI)** – Actively contributing to AI system development, including machine learning model training, computer vision, object detection, NLP, API integration, and data annotation. His AI work includes:
  - Developing an **NLP language model**
  - Creating an **NLP system based on a curated World War II historical corpus**, using **RoBERTa** for deep contextual text understanding
  - Building an **object defect detection system using YOLOv11** as a solo contributionThese highlight his ability to execute advanced AI tasks with independence and precision.



- **Mobile Development** – Competent in developing intuitive and user-friendly mobile applications. His mobile projects include:
  - Creating a **Flutter-based AI image generation app** with **predefined scenes**, a friendly and modern UI, and integration of the **Gemini API**
  - Developing a **language-learning mobile application** featuring shuffle-based word quizzes, user-added vocabulary, and a complete **French learning module** built by him
- **Full Stack Development** – Proficient in full end-to-end development for web and mobile applications. His experience includes:
  - Deploying web and mobile applications
  - Designing and integrating APIs and authentication systems
  - Working with servers, databases, and scalable architectures
  - Embedding machine learning functionalities into applications
- **Database Expertise** – Skilled in multiple databases, including:
  - **Supabase** – Used for his website’s backend, real-time database, and authentication
  - **MySQL / phpMyAdmin** – Relational database design, optimization, and backend integration
  - **Firebase** – Used exclusively for mobile applications (Firestore, Auth, Realtime DB)
  - **MariaDB** – Used professionally during his internship for backend operations

He is known for his integrity, discipline, ability to work both in teams and independently, and possesses excellent analytical and problem-solving skills. We greatly appreciate his contributions and dedication during his time at the company.

This reference letter is provided as a token of appreciation and may be used as appropriate.

Jakarta, 26 November 2025

Sincerely,

A handwritten signature in blue ink, appearing to read 'Teguh Ari Wibowo', with a stylized flourish at the end.

**Teguh Ari Wibowo**  
Division Head of Information Technology  
PT MNC Tourism Indonesia

*Copy to Human Resources*