ALI HARIZ BIN ANUARI

Phone: +6011-39020840

Email: thisalihariz08@gmail.com

alihariz@graduate.utm.my

Profile Summary: Final-year Computer Science (Software Engineering) student at Universiti Teknologi Malaysia with hands-on industrial experience at Malaysia Airports Holdings Berhad. Skilled in full-stack development, system migration, machine learning, and data analytics. Proven ability to deliver complex projects including legacy system modernization (VB.NET to Google Apps Script), AI model development for customer feedback classification, and enterprise application development. Experienced in Google Workspace ecosystem, Python ML frameworks, and modern web technologies. ISTQB CTFL v4.0 certified. Seeking opportunities to apply technical expertise in innovative, tech-driven environments.

REFERENCE

- Prof Wan Mohd Nasir Wan Kadir | Academic Advisor | +6019-7712410 |wnasir@utm.my

EDUCATION

Universiti Teknologi Malaysia (October 2022 - Present)
- Bachelor of Computer Science (Software Engineering) with Honours
- Cumulative GPA: 3.43

Kolej Mara Kuala Nerang
- Foundation of Engineering & Technology Cumulative GPA: 4.00
- MUET Band : 4.0

Maktab Rendah Sains MARA (January 2016 - March 2021)
- **SPM Grade :** 1A+, 6A, 2B
- **Certificates :** Sijil Pelajaran Malaysia (SPM), Cambridge International General Certificate of Secondary Education (IGCSE), Cambridge Lower Secondary Checkpoint.

EXPERIENCE

Industrial Training, Malaysia Airports Holdings Berhad (September 2025 - February 2026) *IT Division - Data & Delivery Department (Digital Development Operations)*

- Led migration of legacy finance letter generator from VB.NET to Google Apps Script, serving Finance Department operations
- Developed hybrid AI classification system for customer feedback categorization across 268 categories with multilingual support (English, Chinese, Japanese, Arabic)
- Successfully migrated 20,923 hardware assets to production helpdesk system with comprehensive data cleaning and validation
- Created technical documentation for legacy ASP.NET MVC systems and provided UI/UX consulting for internal projects
- Collaborated with cross-functional teams including Finance, IT Operations, and senior management
- Served as official photographer for SAP S/4HANA Appreciation Day corporate event

PROJECTS

Finance Letter Generator System Migration - *MAHB Industrial Training*

- Migrated legacy VB.NET finance letter generator to modern Google Apps Script platform
- Developed complete full-stack solution with responsive web interface and backend API
- Implemented Google OAuth authentication and role-based access control (Admin/Viewer)
- Achieved 95% visual similarity with legacy system through pixel-perfect HTML-to-PDF template optimization
- Integrated base64 image embedding, session management, and comprehensive error handling
- Created 5000+ word technical documentation and 65+ page setup guide for system maintainability
- Tech Stack: Google Apps Script, HTML5, CSS3, JavaScript, Google Sheets API, Google OAuth

Customer Feedback AI Classification System - *MAHB Industrial Training*

- Developed hybrid AI classifier combining DistilBERT, similarity-based methods, and keyword matching
- Achieved 67x confidence improvement (0.87% → 58.03%) addressing severe class imbalance
- Built multilingual entity extraction system using SpaCy NER for 4+ languages
- Implemented BART-based complaint summarization with 40.4% compression rate
- Created integrated 3-step pipeline: classification → summarization → entity extraction
- Developed validation systems with random and stratified sampling for quality assurance
- Tech Stack: Python, DistilBERT, BART, SpaCy, Hugging Face Transformers, scikit-learn, Google Colab

Hardware Asset Migration Project - *MAHB Industrial Training*

- Successfully migrated 20,923 company hardware assets from Google Sheets to production system
- Performed extensive data cleaning, CSV formatting, and error resolution
- Troubleshot complex serialization and import issues for production deployment
- Implemented data verification procedures ensuring 100% accuracy post-migration
- Tech Stack: Google Sheets, CSV processing, Python, data validation tools

Eraman Survey & Audit System Documentation - *MAHB Industrial Training*

- Created comprehensive software documentation for legacy ASP.NET MVC 5 application
- Analyzed 6,841-line database schema and 18 controllers for technical documentation
- Documented system architecture, security mechanisms, and API specifications
- Tech Stack: ASP.NET MVC 5, SQL Server, technical writing

Dengue Surveillance App : Project Lead

- Developed a system to report and analyze dengue cases in the area and classify the cases according to the severity
- Using tools such as JIRA and Github, the system is developed together with 3 other team members and

delivered the result in a timely manner.

Low Carbon Management System : Developer

- Developed a system to manage the carbon footprint within the organization by tracking how much carbon emissions that has been produced.
- The system is developed using Spring framework and connected to the phpMyAdmin database using Hibernate ORM.

UTM Bus Tracking System : Software Designer

- Designed an architecture to develop a system to track bus within the UTM campus
- The system is designed using Enterprise Architect to construct various diagrams needed to construct the system.

Finance Manager Web Application – *Fullstack Developer & Deployment*

- Built a responsive Personal finance web app using Vue.js (frontend) and PHP Slim Framework (backend), with MySQL for persistent data storage.
- Implemented key features including JWT-based authentication, real-time transaction management, and interactive analytics dashboards using Chart.js.
- Took ownership of the DevOps workflow, including backend deployment on DigitalOcean, frontend hosting on Netlify, and secure HTTPS setup using DuckDNS + Certbot.
- Configured Apache server, custom domains, and CORS policies for seamless API communication.
- Authored a detailed fullstack deployment guide and assisted peers from other groups in deploying their own systems.
- Tech Stack: Vue.js, PHP Slim, MySQL, Chart.js, DigitalOcean, Netlify, DuckDNS, Apache, Certbot, Git

HARDA – Hazard Assessment Road Detection Application : FYP (In-Progress)

- Currently doing a system development for final year project as software engineering undergraduate, which is currently on the proposal stage
- The system will be developed using an image recognition model to identify and classify different type of road hazards from user submitted images, and it will be able to be tracked on the map.

CERTIFICATES

ISTQB Certified Tester Foundation Level (CTFL) v4.0 - December 2025

- International Software Testing Qualification
- Score: 80%
- Covered: Testing fundamentals, SDLC testing, static testing, test design techniques, test management

MUET (Malaysian University English Test) - Band 4.0

- Professional English proficiency certification

LEADERSHIP & ACTIVITIES

Glow Night Run: *Event Crew*
- Actively contributed as a crew member for the **Glow Night Run**, communicated with external parties and setting up the station for the event.

Persatuan Seni Silat Cekak UTM : *Head of Mastery and Demonstration Department*
- Training according to seni silat cekak pusaka hanafi syllabus
- Completed the silat lessons and demonstrated the martial arts display within the campus.

Programming Clinic: *Mentor*
- Joined the programming clinic every year as a mentor
- Taught the fresh years about coding concepts and increase their programming skills

Academic Visit to Vietnam:
- Visited Ho Chi Minh City University of Technology (HCMUT) and attended lectures on Artificial Intelligence and Cybersecurity
- Industrial visit to Vietnam's local tech company, VNG Corporation

UTMKL PPG Visit:
- Attended seminar from PPG IT Council at UTMKL on PPG active involvement in Artificial Intelligence and Machine Learning with their own chatbot ChatPPG.

SKILLS

Programming Languages:

- **Advanced:** JavaScript, HTML, CSS, Python
- **Intermediate:** C++, Java, TypeScript
- **Beginner:** Dart, C#

Frameworks & Technologies:

- **Google Ecosystem:** Google Apps Script, Google Workspace APIs, Google Colab
- **Web Development:** Vue.js, PHP Slim Framework, Spring Framework, HTML5, CSS3
- **Machine Learning:** DistilBERT, BART, SpaCy NER, Hugging Face Transformers, scikit-learn
- **Database:** MySQL, Hibernate ORM, Google Sheets API
- **Authentication:** Google OAuth, JWT
- **Tools:** Git/GitHub, VS Code, JIRA, DiffPDF, Ollama

Development Practices:

- Full-stack development (frontend + backend + deployment)
- System migration and legacy code modernization
- RESTful API design and integration
- Machine learning model development and optimization
- Technical documentation and user guides
- Agile project management

Data Science & ML:

- Natural Language Processing (NLP)
- Text classification and entity extraction
- Hybrid model architectures
- Class imbalance handling
- Model evaluation and optimization
- Multilingual text processing

Design & Documentation:

- UI/UX design and optimization
- Enterprise Architect (Intermediate)
- Technical writing and documentation
- System architecture design
- Canva (Expert)
- Microsoft Office Suite (Expert)

Certifications:

- ISTQB Certified Tester Foundation Level (CTFL) v4.0

Communication:

- Malay (Native Proficiency)
- English (Professional Proficiency)