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## EDUCATION

**Nov 14**  
**Bachelor of Information  
Technology Major Software  
Engineering**  
**Multimedia University (MMU),  
Cyberjaya**

## REFERENCE

**Koh Liak Huat**  
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Project Manager, CIS IT Solutions  
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# CHIN ZU YAO

## Senior Consultant, Full Stack Developer

Logical and results-driven full stack developer with 10+ years of experience in web development dedicated to building and optimizing user-focused websites and applications. Technically proficient and analytical problem solver with calm and

## WORK EXPERIENCE

**Technical Lead**  
**Morph Digital, K.L**

**June 2024 - Present**

- Manage the complete software development process from conception to deployment;
- Develop front-end website architecture and back-end applications, databases, and servers; end-to-end life cycle for the production of software and applications
- Work collaboratively with in-house teams and stakeholders to manage and develop web systems while focusing on optimising user experience, speed and performance
- Gather and translate user/business requirements into technical specifications and ensure the technical feasibility, development timeline and resources required.
- Cultivate best practises for software development.
- Provide operational and technical support for all websites and portal.
- Deployment process, resolve web servers related issues for web applications.

### Projects

#### 1. Wordpress Optimisation

##### - Performance Enhancement:

a. Improved website loading speed by optmising media files, minimizing http requests, enabling browser caching tools ( LiteSpeed Cache, and Cloudflare.

b. Reduced server response time by implementing efficient server side caching strategies including opcode caching with OPCache and Quic.cloud integration

- **Database Optimization:** Indexing, cleaning up revisions, spam comments, orphaned metadata

- **Code Optimization:** Minimized file size for JS and CSS

- **Media Optimization:** Reduction of 70% image sizes using TinyPNG

- **Monitoring & Analytics:** Continuously monitored performance metrics using tools like Google PageSpeed Insights, GTMetrix, Websitecarbon ( Carbon Footprint )

##### - Results-Oriented Impact:

a. Achieve up to a 90% reduction in page load times for high traffic websites

b. Improved Google PageSpeed scores from 60 to 95+ directly ehancing user experience and SEO rankings

c. Improve/Reduce carbon footprint from D to A+

**Skillsets:** Wordpress, Cloudflare, Quic.cloud, OpenLiteSpeed

## 2. HRMS ( Human Resource Management System )

### - Role-Based Access Control ( RBAC )

a. Designed and implemented RBAC systems to ensure secure and hierarchical access to sensitive HR Data

b. Configured role permissions for employees, managers, administrators, reducing unauthorized access incidents 90%

### - Leave management

a. Developed and streamlined leave management modules, enabling employees to submit and track leave requests seamlessly

b. Automated approval workflows with multi-level authorization, reducing processing time by 50%

### - Claims Processing

a. Built a comprehensive claims management system to handle employee reimbursements and benefits

### - Calendar Integration

a. Integrated shared calendars for leave schedules, public holidays, and company events

### - Audit trail implementations

a. Designed and implemented comprehensive audit trails in HRMS to log and monitor all system activities, including user access, data changes, and approvals

b. Enabled detailed tracking of modifications to sensitive data, such as employee records, leave balances, and claim submissions

**Skillsets:** Nextjs, Nestjs, Reactjs, Nodejs, TypeScript, MySQL, Git, Docker, Redis, PM2

## 3. IoT Device Integration & Home Automation ( Ongoing R&D )

### - Home assistant integration

a. Configured and customized Home Assistant for centralized smart home automation, integrating IoT devices, such as lights, sensors, and etc

### - Tuya IoT Platform

a. Cloud integration & API utilization: Leveraged Tuya's Open API to manage devices, assets, and industry specific functionalities, facilitating the creation of comprehensive IoT devices

**Skillsets:** ExpressJs, Tuya SDK, Tuya Open API, Homeassistant, Python

## 4. Smart cabinet system with Facial Recognition & RFID Tracking (On going development)

**Project overview:** Engineered an intelligent inventory management system in the form of a smart cabinet that integrates facial recognition and RFID technologies to provide secure access control and real-time tracking

**Access Authentication:** Used Python with OpenCV and face\_recognition libraries to implement facial recognition-based user access; triggered cabinet unlocking upon verified identity.

**Item Detection & Logging:** Integrated UHF RFID readers for automated scanning of items placed in or removed cabinet. Logged transactions locally using better-sqlite3 and synced periodically to remote server via API.

**Hardware Integration:** Deployed on Raspberry Pi 5 running on ElectronJS for kiosk-style UI/UX, utilizing RPI camera module for capturing user facial data.

### System Highlights:

Real-time dashboard for monitoring inventory, cabinet access history, and facial recognition logs. - Admin access to register users, assign RFID-tagged assets, and review audit trails - Offline first functionality ensures local operation in case of network failure with auto sync once restored.

**Skillsets:** ElectronJS, NodeJS, better-sqlite3, Python, OpenCV, face\_recognition, RFID, Raspberry Pi, NextJs, NestJs, PostgreSQL, Docker

**Senior Consultant, Full Stack Developer**  
**Azendian Solutions Sdn Bhd, K.L**

**March 2023 – Jun 2024**

- Manage the complete software development process from conception to deployment;
- Develop front-end website architecture and back-end applications, databases, and servers; end-to-end life cycle for the production of software and applications
- Work collaboratively with in-house teams and stakeholders to manage and develop web systems while focusing on optimising user experience, speed and performance
- Gather and translate user/business requirements into technical specifications and ensure the technical feasibility, development timeline and resources required.
- Cultivate best practises for software development.
- Communicated project status and progress, knowledge sharing, demonstration, training and presentation to internal and external stakeholders/vendors.
- Produce technical write-ups and documentations for internal knowledge library.
- Provide operational and technical support for all websites and portal.
- Manage code review, deployment process, resolve web servers related issues for web applications. Collaborate with IT/IS for technical assistance and integration.

#### Projects

##### **1. Computerized Maintenance Management System ( CMMS ) - Web & Mobile**

- Centralizes maintenance information to enhance management of maintenance activities for an organization facility's operation
- The solution is used to perform maintenance to enhance management on equipment, assets and property, It provides the ability to track completed and assigned tasks, helps maintenance workers perform their job more effectively, and produces status reports to help management make more informed decisions across all maintenance activities while optimizing the utilization and availability of physical equipment, machinery, communications, plant infrastructure, and other assets.

**Skillsets:** ReactJS, NextJS, ExpressJS, NodeJS, PostgreSQL, Git, Docker, AWS, React Native

## Senior Full Stack Developer

Aug 2020 – Mar 2023

### Dassault Systemes, Petaling Jaya

- Work collaboratively with in-house teams and stakeholders to manage and develop web systems while focusing on optimising user experience, speed and performance
- Gather and translate user/business requirements into technical specifications and ensure the technical feasibility, development timeline and resources required.
- Cultivate best practises for software development.
- Communicated project status and progress, knowledge sharing, demonstration, training and presentation to internal and external stakeholders/vendors.
- Produce technical write-ups and documentations for internal knowledge library.
- Provide operational and technical support for all websites and portal.
- Manage code review, deployment process, resolve web servers related issues for web applications. Collaborate with IT/IS for technical assistance and integration.

### Projects

#### 1. Service Portal

- A request management tool that streamlined the process of submitting, receiving, and processing requests, with improved automation and better visualization of delivery
  - Listing page which indicates status of each task
  - Email scheduler calendar
  - Email block builder with preview function
  - Chat system
  - SLA calculations
  - Token Calculation
  - Automated notifications
  - Reportings

**Skillsets:** Object oriented programming (MVC), PHP, HTML, JS, JQuery, CSS, MySQL, API, 3<sup>rd</sup> Party Plugin integrations, Apache, Nginx, Linux, Central Authentication Services (CAS), Git, SVN, Docker

#### 2. Marketing Plan Calendar across all Geos

- A calendar for marketers to plan, organize, manage and visualize marketing plans
  - User role management system
  - Activity data management – export/import feature
  - Activity listing – Year/Month/Week
  - Integrating with internal tools (Collabgrid)

**Skillsets:** Vuejs, PHP, Yii2, API, Headless Architecture, MySQL

**Software Engineer****Jul 2015 – Aug 2020****CIS IT Solutions Sdn Bhd, Petaling Jaya**

- Full stack web developer with extensive knowledge in frontend and backend web development
- Designing user interface on web pages using frameworks to speed up designing processes mainly bootstrap 3 & 4
- Databases management and migration
- Developing and designing restful API's

Projects:

**1. Network Marketing Systems**

- user role management
- branch & stockiest management
- ecommerce
- inventory management
- email & sms marketing
- network trees (upline & downline)
- bonus management
- dashboards
- replicator management
- audit trail
- ewallet/point systems
- integrating payment gateways

**Payment Gateways:** IPAY88 (online EPP, HSBC, Hong Leong, Maybank Ezypay, Maybank American Express Ezypay, Public bank bhd (installment)), Baiduri, FPX, IPS, eNets, CTBC, MPOS (integrating with credit card device), BBL, Alipay, Wechat

**Clients:** Hai-o, Elken, Bioxyn, Agape, Student4u, Sayen, Seers, Eions, etc..

**Skillsets:** Extjs, Bootstrap 3&4, Yii & Yii2, MySQL, Centos, Git

## **Web Developer**

**May 2014 – May 2015**

### **Weststar Digital Sdn Bhd, Kuala Lumpur**

- Develop and maintain websites for a stationary company
- Develop ecommerce platform sell goods online
- Develop business card app
- Provide hardware and software support
- Integrating between desktop and web applications

Projects:

#### **1. Business card app**

Link: [www.wdcard.com](http://www.wdcard.com)

- CMS that allows dynamic content on mobile app
  - Integration of Facebook API and Twitter API that allows user's fan page to be displayed real time
  - Offline feature

**Skillsets:** PHP, JQuery, JQuery UI, JQuery Plugins, JavaScript, AJAX, MySQL, JQuery Mobile, HTML, CSS, Bootstrap, Facebook API, Twitter API, Google Map API, Cache manifest

#### **2. Ecommerce online store**

Link: [www.westar.my](http://www.westar.my)

- Build an online ecommerce store to market and sell products
  - Use magento framework as the code base to build new modules, extensions and features

**Skillsets:** PHP Magento, Zend framework, MySQL, JavaScript, JQuery, JQuery UI, JQuery Plugins, AJAX, HTML, XML, CSS

#### **3. Price Checker**

- An online and offline price checking for all categories of stationery
- Integrating bar code scanner to web applications

**Skillsets:** JavaScript, JQuery, Cache.Manifest, CSS, HTML5, Bootstrap, JQuery Plugins, SQLite, Barcode Scanner, MySQL

#### **4. Internal System (SMS Integration)**

- Integrate SMS gateways to existing CMS web systems
- Manual or fully automated
- Check credit balance
- Desktop + Web application integration
  - Develop software to interact with windows port (GSM modem Wavecom Fastrack) using AT command

**Skillsets:** Visual C#, AT commands, Serial Port, MSSQL

**Junior Web Developer****Nov 2013 – May 2014****SG SEA Sdn Bhd, Petaling Jaya**

- Develop websites to market products on gaming platform
- Build, manage and maintain content management system (CMS)

**Skillsets:** JQuery, JavaScript, AJAX, PHP, MySQL, subversion**Internee****Mar 2012 – May 2012****Syndes Technologies Sdn Bhd, Kuala Lumpur**

- Develop desktop applications (eg. Human Resource Management System (HRMS)).
- Upgrading code base from deprecated VB6 to VB.NET.
- Develop reporting services using SQL Server Reporting Services (SSRS) as a tool to create, deploy and manages report.
- Underwent training in windows Azure to learn more about cloud computing.
- Setting up servers in data center.

**Skillsets:** VB6, VB.NET, SQL server,**Freelance****Project:****1. Task Management Systems**

- Manages technicians daily task for a repair shops
- create quotations and invoices
- generate sales reports
- Dashboards

**Skillsets:** MySQL, Yii2, Bootstrap4**2. Quotation Systems**

- Manages quotation
- Dashboard
- Product management
- Company/Client/User management
- Point systems (collection/transfer/summary)

**Skillsets:** MySQL, Yii2, Bootstrap4**3. PKS 2.0****Link:** [www.kitaselangor.my](http://www.kitaselangor.my)

- Prospective developer for the Enhancement of Pakej Kita Selangor 2.0 (PKS 2.0)
- Build and maintain web portals that provide information related to this package, enabling citizen/ flood victims to apply and enable state government to monitor the disbursement progress.
- Track user submission and auto forward applications to assigned PIC to be integrated to the existing system
- Email template management
- Provide access to any relevant agencies and DUN to operate and submit their report on the platform
- using Charts to provide data analysis

