

Chang Kok Shen

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PROFILE

My name is Chang Kok Shen, and I recently graduated with first class honours in Computer Science from Universiti Tunku Abdul Rahman in June 2025. I specialize in Frontend Development with strong experience in both web and mobile applications, demonstrated through successful hackathon participation and a published mobile app on Huawei App Gallery. I hold an AWS Cloud Practitioner certification and am actively expanding my skills in React.js and Node.js to build modern, scalable web applications. I am seeking opportunities where I can leverage my frontend expertise alongside cloud technologies to create impactful user experiences.

EDUCATION

Universiti Tunku Abdul Rahman

Bachelor of Computer Science (Honours)

Kampar, Perak

2022 June – 2025 June

- **Current CGPA:** 3.7327
- Actively learned various fundamentals of computer science concepts including procedural, object-oriented programming design, database management, operating system, and data structures & algorithms
- Able to understand and program CRUD (Create, Read, Update and Delete) operations for low level programming languages like C++
- Able to understand and program web developments frameworks including HTML, CSS, JavaScript, Bootstrap and PHP
- Understand software engineering methodologies including Agile, eXtreme programming, System Development Life Cycle, Scrum, Throwaway prototyping, and Waterfall model
- Understand internetworking knowledge including configuring LANs, firewalls, network address translation, subnetting and understanding Internet Protocols including TCP/IP model
- Understand software testing fundamentals including the 4 test levels (unit, integration, system, acceptance), developing a full Software Requirements Specification (SRS) and Software Design Specification (SDS), static testing, dynamic testing and software testing lifecycle

EXPERIENCE

Koson Technology

Ipoh, Perak

Software Solutions Provider / Outsource Solutions Provider

Software Engineer Intern

2023 October – 2024 January

- Collaborated with **3 experienced oversea developers in Hong Kong and China** to create a **mobile responsive** WeChat mini program to control the Temi robot
- Scheduled weekly Microsoft Teams meeting to **report progress, discuss code fixes and solutions** for the WeChat mini program
- Lead the **main production** of the WeChat Mini program with other developers in an **Agile development**, constantly changing and implementing **sudden requirement changes** given by Robocore (the mother company of Temi robots production)
- Successfully completed the remaining **20%** of the WeChat Mini program functions which include the implementation of the **core map function** that is used to pinpoint the locations the Temi robot can move to
- Reevaluate and refactor existing source code, debugging existing errors from the WeChat mini program. Finally cleared up **70%** of messy and redundant code
- Actively test and deploy at least **7 releases** of the TemiScript WeChat mini program in GitLab including **version 1.1.1 up to version 1.1.1.7**
- Tested **6 existing core functionalities** of the Temi Robot, ensure that the frontend is in sync with the Temi robot and server side
- **Technologies used:** WeChat mini program, Weixin Markup Language, Weixin Style Sheets, JavaScript, GitLab, PHP

UTAR Final Year Project

Kampar, Perak

Smart Financial Tracking Mobile Application

Final Year Student

2024 October – 2025 June

- Implement Flutter mobile application using **clean** and **MVVM architecture**
- Calling and integrating **Finverse Restful API** and can connect to 3 local Malaysian banks, including Maybank, Public bank and CIMB
- Display basic to advanced bank details including remaining **bank balance, debit card transactions** and **currency**
- Automate Financial reminders through **WhatsApp Business** and **N8N** using a low code workflow
- Record daily expenses intuitively using voice and manual entry

- Integrate a pretrained machine learning model to perform **Optical Character Recognition** on receipts
- Generate key insights based on aggregated financial data using **generative AI** and **Retrieval Augmented Generation**

PERSONAL INFORMATION

- **Languages:** English, Mandarin, Malay, and Cantonese
- **GitHub:** <https://github.com/kshen0414>
- **LinkedIn:** <https://www.linkedin.com/in/chang-kok-shen-4b0b50188/>
- **Email:** kokshen3414@gmail.com
- **Blog Post:** <https://medium.com/@kshen3414>
- **Clubs and Societies:** Cyber Security Club UTAR

TECH STACK / SKILLS

- **General tech stack:** C++, Python (Procedural), Python (Machine Learning), Java (Object-Oriented)
- **Frontend stack :** HTML, CSS, Bootstrap, JavaScript, WeChat mini program, React.js
- **Backend stack:** PHP, Node.js, FastAPI
- **Mobile application:** Dart (Flutter), Java (Android), XML, YAML
- **Mobile application deployment:** Huawei App Gallery, PlayStore
- **Automation:** Postman, n8n, Selenium
- **Database:** Oracle (SQL plus), MongoDB, Hadoop, Microsoft Access, XAMPP, MySQL, Firebase
- **Version Control:** Git, GitHub, GitLab
- **Documentation:** Markdown

CERTIFICATIONS / COURSES

- AWS Cloud Quest: Generative AI
- Oracle Cloud Infrastructure 2025 Certified Foundations Associate
- AWS Certified Cloud Practitioner (CLF-C02)
- AWS Cloud Quest: Cloud Practitioner
- GitHub Foundations Certification
- Postman API Fundamentals (Student Expert)
- TRIZ Level 1 Practitioner
- Introduction to Version Control with Git
- Microsoft Learn AI Skills Challenge (Machine Learning)
- Oracle Cloud Data Management 2023 Certified Foundations Associate

COMPETITIONS / HACKATHON

Future Ready Hackathon 2025

- Led 3-person team to develop PayCheck: AI Invoice Validator, solving Malaysian SME pain point of discovering LHDN compliance violations only after MyInvois portal submission, causing costly resubmissions
- Prototyped a web application using React.js, FastAPI, Llama Parse, and LangExtract to parse PDF invoices, extract mandatory fields via NLP, and pre-validate against LHDN compliance schema
- Delivered working prototype in 19 days that eliminates time-consuming resubmission cycles for SMEs lacking comprehensive accounting software

UTAR FICT FYP Competition 2025

- Advanced to finalist round with Final Year Project titled Smart Financial Tracking Mobile Application
- Ranking among the **top 10%** of participants (top 18 out of 183 students)
- Successfully pitched and demonstrated full working prototype of FYP Smart Financial Tracking Mobile Application

Tech 4 Good Challenge 2025 (ViTrox Academy)

- Secured a spot as Top 8 Finalist in Tech 4 Good Challenge 2025 **out of 180 teams**, qualifying for final round
- Suggested a comprehensive mobile application named **Allemergency** for preliminary allergy screening
- Applied concepts of Artificial Intelligence (AI), Machine Vision, and Mobile Application in system architecture design

Hackathon X UMPSA 2024

- Competed against 120 teams and 250+ participants
- Created and prototyped an education mobile application to help underprivileged students achieve sustainable Quality Education (SDG Goal - 4) in rural areas in Malaysia
- Successfully deployed the mobile application prototype named **Cerah** on Huawei App Gallery