CHONG WIN NIE

(Malaysian, XXXXXXX)
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Computer Science graduate from UTAR, with a **B.CS (Hons) with Distinction** and **IT Business Analyst internship** experience across **8+ digital solution initiatives**. Skilled in analysing and translating stakeholder requirements into structured workflows, developing mockups, proposing solutions, and preparing functional specifications. Brings practical experience in process automation, software testing, and requirements validation, with technical exposure to Web3/blockchain, AI/ML, cloud computing, programming, and cybersecurity through internship and academic projects. Seeking a **full-time role** in IT business analysis, software testing, project management, or quality assurance, while remaining open to related IT opportunities. Available for full-time employment from December 2026.

EDUCATION

Bachelor of Computer Science (Honours), *Universiti Tunku Abdul Rahman (UTAR), Perak* Oct 2023 – Oct 2026
CGPA: 3.6856 | Honours with Distinction | President's List and Dean's List award recipient
Achievements: UTAR Top Achiever Scholarship

Foundation in Arts (Management & Accountancy), *Universiti Tunku Abdul Rahman (UTAR), Perak* Oct 2022 – Oct 2023
CGPA: 3.8136 | President's List and Dean's List award recipient
Achievements: UTAR Top Achiever Scholarship

Malaysian Certificate of Education (SPM), *SMK USJ 12, Selangor* Jan 2017 – Jan 2022
Stream: Pure Science
Achievements: Straight As Award recipient

WORK EXPERIENCE

IT Business Analyst Intern, *Webby Group, Puchong* Oct 2025 – Jan 2026

- Gathered stakeholder requirements and translated them into user stories, functional specifications, and flowcharts; analysed processes and supported QA across **8+ projects**.
- Developed process workflows, wireframes, mockups, and functional documentation to communicate proposed solutions and address process gaps.
- Discussed **technology stack choices** with the supervisor to identify opportunities to reduce vendor costs and support solution design.
- Executed functional tests, identified defects, and validated the system against requirements.
- Collaborated with developers, UI/UX designers, and clients in **cross-functional Agile teams**.

Admin Assistant, *Part-time, Red Dragonfly Educare, Puchong* Apr 2022 – Aug 2022

- Maintained student records in Microsoft Excel and handled student-related issues and enquiries.
- Communicated with parents about student progress and academic concerns.
- Promoted tuition packages to prospective parents to support student enrolment.

AWARD-WINNING PROJECT & PUBLICATION

Building Production-Ready Medical AI Agents with Scalable Long-Term Memory using Large Language Models, *Final Year Project, Universiti Tunku Abdul Rahman (UTAR), Perak* Jun 2025 – Oct 2026
MediSync-FYP

- Built a role-based healthcare AI platform using **Python, FastAPI, LangChain, and Next.js**, integrating clinical knowledge retrieval through RAG and an updatable knowledge base.
- Orchestrated **5 specialised agents** through a **LangGraph supervisor**, routing requests across patient management, diagnostics, appointments, inventory, and staffing.
- Implemented **three-layer memory** using Redis, PostgreSQL, and ChromaDB/Mem0 with selective retrieval, bounded context, and asynchronous updates to control memory and prompt growth.
- Tested tool, task, and turn-level behaviour, recording **30/30 correct responses** across selected evaluation cases, alongside latency and token-usage measurements.
- Awarded **3rd Place, AUTOCOUNT–FICT FYP Competition June 2026**. Paper **accepted for presentation and publication** at the **ICNGN 2026 international conference**; registration completed, with presentation and publication pending.

SKILLS AND LANGUAGES

Programming Languages	Python, C++, Java, JavaScript, MIPS, HTML, CSS, XML
Databases	MySQL, PostgreSQL, Oracle Database, Microsoft Access, SQLite, SQL
Cloud & Infrastructure	AWS (EC2, RDS, S3, EFS, Auto Scaling, VPC, NAT Gateway), Linux (Ubuntu), Docker
AI/ML & Development Tools	LangChain, LangGraph, LangSmith, Visual Studio, OpenCV
Office & Project Tools	Microsoft Word, Excel, PowerPoint, Power BI, Jira
Multimedia Design Tools	Figma, Adobe InDesign, Adobe Photoshop, OBS Studio, Draw.io
Professional Skills	Analytical thinking, problem-solving, stakeholder coordination, teamwork, attention to detail
Languages	English, Chinese, Malay, Hokkien, Cantonese

AWARDS AND CERTIFICATIONS

Universiti Tunku Abdul Rahman (UTAR)

- Platinum, *UTAR Soft Skills Development Certificate (USSDC)* — Oct 2026
- 2 Stars • 36 community service hours, *UTAR Community and Voluntary Engagement (CARE) Programme* — Oct 2026
- 3 Stars, *UTAR Leadership Development (LEAD) Programme* — Oct 2026

The Malaysia TRIZ Innovation Association

- Certified Level 1 TRIZ Practitioner, *The International TRIZ Association (MATRIZ)* — Sep 2025

AWS Academy

- AWS Academy Graduate: AWS Academy Cloud Foundations ⇒ [1] — Apr 2025

University System of Maryland, edX

- Online Advertising & Social Media ⇒ [1] — Feb 2025

Malaysian Examinations Council

- Band 4.0, *Malaysian University English Test (MUET)* — Jul 2023

Malaysian Institute of Chemistry (IKM)

- Distinction, *Basic Level, Malaysian National Chemistry Quiz (K_3M)* — Mar 2021

VOLUNTEER AND LEADERSHIP

UTAR Kampar Cybersecurity Club — Jul 2025 – Jul 2026

Publicity Assistant, Club Committee

- Grew the official Instagram page from **173 to 424** followers, producing **49 posts** and **5 reel videos** that generated **56.3K views**.
- Served as **Head of Secretariat Department** for CyberHunt CTF 2026 and CyberConnect forum, coordinating registrations, payment checks, certificates, seating, and industry liaison.
- Supported industrial visits to **Dell, Exabytes, and Plexus** through company outreach and publicity, and promoted events through university club networks.

UTAR Kampar Malaysia Board of Technologist (MBOT) Student Chapter Club — Jul 2025 – Jul 2026

Secretary Assistant, Club Committee

- Served as **Head of Programme Department**, leading programme planning for **Fuel Not Found**, a five-day, two-stage hackathon involving 7 teams of 5 students with IT and engineering backgrounds.
- Coordinated **ESP32 loans, judging rubrics, and event schedules** with faculty departments and judges for proposal assessment and prototype presentations.
- Supported recruitment of **50+ members**, contributing approximately **RM600 to club funds**, and robotics workshop administration.
- Supported the **SanDisk technical visit** by managing participant registration, company communication, faculty indemnity forms, leave applications, meeting minutes, and company presentations.

UTAR Kampar Computer Society — Mar 2026 - Jun 2026

Treasury Assistant, Enlight 6.0 Industrial Visit Event Committee

- Managed departmental budgets, registration fees, sponsorship records, and committee claims for **a 3-day, 2-night industrial visit** to seven technology companies.
- Compared supplier quotations and coordinated accommodation, transportation, and event merchandise to keep spending within budget.
- Planned contingency funds, reconciled transactions, and prepared the post-event financial statement.

UTAR Community and University Activities — Nov 2023 – Sep 2025

Student Volunteer, Event Helper, Usher

- Supported community service, career events, scholarship ceremonies, sports activities, and university programmes through participant assistance and event coordination.

REFERENCES

Dr Png Wen Hao • *UTAR Final Year Project Supervisor*
Assistant Professor
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Ts Dr Ku Chin Soon • *UTAR Academic Advisor*
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Ms Leong Zi Wei • *Intern Direct Supervisor*
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