

Yap Jien Fei

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SUMMARY

Junior Software Developer with hands-on experience building full-stack web applications, systems-level programs, and AI-powered data tools in C, C++, Python, TypeScript, and Next.js. Strong foundation in problem-solving and engineering rigour through 42 KL's peer-evaluated programme and the KYouth Data & AI bootcamp. Experienced in containerised deployments, REST API design, and privacy-aware data pipelines.

EDUCATION

42 Kuala Lumpur – Sunway Education Group & Khazanah Nasional

Skills Competency Certificate in Computer Science

2023 – Present

Heriot-Watt University

BSc (Hons) Actuarial Science – First Class Honours

2018 – 2020

PROJECTS

Educatório – Learning Management System ([github](#)) | *Next.js, TypeScript, Node.js, Supabase, Docker*

- Led frontend across a 4-person team, cutting backend integration time by 30% through a shared component library and API contracts.
- Reduced page load times by 40% via Next.js performance optimisations.
- Shipped to production with WAF, Prometheus, and Grafana – enabling real-time security monitoring and incident response.

GoNext – Career Pathway Navigator ([github](#)) | *Python, Flask, Google Gemini, PostgreSQL, Redis, Docker*

- Delivered an AI career navigation tool for Malaysian IT professionals with personalised role recommendations from uploaded PDF resumes.
- Eliminated hallucination risk by anchoring all career scores in WEF, JobStreet, and DOSM datasets – fully traceable, no LLM guesswork.
- Surfaced the top 3 shortest career transition paths per user from 300+ real job postings via BFS with skill-overlap edge weighting.

Data Privacy Protector ([github](#)) | *Python, Streamlit, Microsoft Presidio, spaCy, Fernet*

- Covered all PDPA-relevant Malaysian PII categories – NRIC, passport, phone, address, race, religion – beyond standard international frameworks.
- Preserved document readability post-anonymization by substituting PII with type-matched fake placeholders, fully reversible via AES-128 encrypted mapping.
- Delivered per-file compliance audit trails (JSON + CSV) logging every detection, method, and transformation – designed for regulatory review.

ft_irc – IRC Server ([github](#)) | *C++98, TCP Sockets, poll()*

- Shipped a standards-compliant IRC server (RFC 1459) in C++98, handling concurrent clients – verified against real IRC clients (irssi, WeeChat).
- Achieved non-blocking concurrent I/O without threads via `poll()`, eliminating blocking bottlenecks across all connections.

EXPERIENCE

Public Bank Berhad

Kuala Lumpur, Malaysia

Loan Credit Officer

Dec 2020 – Sep 2023

- Surfaced cross-selling leads through routine credit reviews of existing customers, generating referrals beyond the core credit function.
- Delivered commercial and corporate credit proposals consistently endorsed by senior credit committees.
- Maintained BNM-compliant credit files with zero findings raised across all external auditor reviews.
- Processed a high-volume loan caseload under strict regulatory deadlines with zero compliance breaches.

TECHNICAL SKILLS

Languages: C, C++, Python, TypeScript, JavaScript, SQL, HTML, CSS

Frameworks & Libraries: Next.js, React, Node.js, Flask, FastAPI, Tailwind CSS

Databases: PostgreSQL, Supabase, SQLite

DevOps & Tools: Docker, Docker Compose, Ansible, Git