HAN JUIN WONG

"Chasing goals so my cat doesn't have to chase mice."

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CAREER OBJECTIVE

AI Engineer with hands-on production experience building scalable LLM-powered systems, RAG pipelines, and API services. Experienced in integrating multi-provider large language models (OpenAI, Anthropic, Gemini) and designing tokenization and chunking strategies for structured data processing. Seeking to contribute to high-impact AI-driven products where reliability, architecture, and real-world deployment matter.

SKILLS

Core Competencies

Analytical Thinking – Strong background in machine learning, deep learning, and research-based problem solving.

System Design Mindset – Experience designing end-to-end AI pipelines from data ingestion to model deployment.

Problem Solving – Focused on building scalable, maintainable solutions in both academic and production environments.

Leadership & Initiative – Led operational teams and contributed proactively in engineering discussions and code reviews.

Adaptability – Proven ability to transition across industries and rapidly learn new technologies.

Technical Skills

AI & Machine Learning - Python, XGBoost, SHAP, TensorFlow, PyTorch, scikit-learn, YOLO, LLM Integration, RAG Pipelines

Backend Development - FastAPI, RESTful APIs, MVC Architecture, JSON APIs, Git, GitHub

Data Processing & Engineering - SQL Server, Pandas, NumPy, CSV Processing, Schema Validation

Web & Mobile - JavaScript, React JS, React Native

Tools - AWS (EC2, S3 basics), PyTest, MyPy, Ruff, LaTeX

EDUCATION

Master in Computer and Information Sciences (First Class Honours)

Auckland University of Technology July 2024 – Nov 2025 — New Zealand

- Completed thesis - **Explainable AI in Traffic Prediction**. Designed and implemented an end-to-end pipeline integrating predictive modelling (XGBoost), SHAP-based explainability, large language model interpretation, and simulation-based validation for policy support.
- Member of the **Next Generation System** research group.

Bachelor in Computer Sciences (First Class Honours)

Asia Pacific University Apr 2016 - Jul 2019 — Malaysia

EXPERIENCE

AI Engineer Intern

Goldenset Nov 2025 – February 2026 — Auckland

- Contributed to the Titans monorepo, primarily within the Apollo (AI Service)
- Designed and improved CSV-to-RAG processing pipelines, enabling structured data ingestion and semantic enrichment.
- Implemented and refined token-based chunking strategies (fixed, hierarchical, semantic, heading-aware) for scalable document processing.
- Integrated multiple LLM providers (OpenAI, Anthropic, Google Gemini) through a unified interface layer.

- Wrote unit tests and improved validation logic using PyTest, MyPy, and static analysis tools.
- Participated in code reviews, PR discussions, and production-level debugging in a collaborative engineering environment.

IT Intern

DKSH Feb 2016 – May 2016 Kuala Lumpur

- Implemented an **electronic document signing system** using SharePoint and JavaScript, reducing manual approval time and streamlining the document review workflow across departments.
- Collected and maintained comprehensive technical documentation for system configurations, workflows, and user guides to support internal IT operations and future onboarding.

Housekeeping Supervisor

Millbrook Mar 2022 – Jun 2024 Queenstown

- Led a team to consistently meet hotel operational standards while improving workflow efficiency through structured SOPs and procurement process optimisation.
- Developed a budget control and supply tracking system to reduce waste and optimise spending; recognised with the **Rising Star Award** for high performance and leadership.

PROJECTS

Explainable AI in Traffic Prediction

Master's Dissertation

- Designed and implemented an end-to-end pipeline integrating XGBoost prediction, SHAP-based explainability, large language model interpretation, and simulation validation to explore how AI insights can support traffic policy decisions.

CSV-to-RAG Processing Pipeline

LLM Engineering Project

- Developed a structured CSV ingestion and semantic enrichment pipeline for retrieval-augmented generation workflows, implemented token-aware chunking strategies and schema validation to ensure reliable large language model responses.

AI & Data Systems Projects

Selected AUT Projects

- Built practical AI systems including a YOLO-based currency detection model, a React Native sustainability barcode scanner, and large-scale disaster dataset analysis using Python and AWS fundamentals.

INTERESTS

All time Manchester United Fan | Passionate home cook especially for my partner | Enjoy playing boardgames with friends | Love going to concert | Movie buff | Serious gamer with a competitive spirit

REFEREES

Matthew Kuo (Dissertation Supervisor & Programme Director)
@ Auckland University of Technology
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Kiarash Bahmani (Vice President of Engineering)
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