

# Miguel Wei Jian Lim

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## Professional Summary

Aspiring software developer with a Master of Information Technology (Professional Computing) and a suite of industry-recognised certificates in cybersecurity and IT automation. Proven ability to build and secure full-stack web applications, automate workflows with Python, and deploy cloud-native solutions. Adept at translating complex technical requirements into scalable, maintainable code.

## Technical Skills

- **Languages:** Python, Java, JavaScript/TypeScript, C#, SQL, Ruby, PHP
- **Frameworks & Libraries:** React, Node.js, Flask, Django
- **Cloud & DevOps:** AWS (Lambda, EC2), Docker, Kubernetes, Git
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Security & Testing:** pytest, Mocha, Wireshark

## Education

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**Swinburne University of Technology** Master of Information Technology (Professional Computing) · Conferred July 2024

- High Distinction in Web Application Development, Software Quality & Testing, Object-Oriented Programming, Cloud Engineering

**Swinburne University of Technology** Bachelor of Information and Communication Technology · Completed June 2024

- Golden Key Honours Scholar
- Major: Software Technology
- Key Units: Software Architectures & Design, AI Principles, Mobile Development, IT Security

## Certifications

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- Coursera IBM Cybersecurity Analyst Professional Certificate (2025)
- Google IT Automation with Python Professional Certificate (2025)
- Google IT Support Professional Certificate (2024)

# Projects

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## PDF Whisperer AI Chatbot application – Group Project Team Leader

GitHub: [github.com/Miguell390/geminiapp](https://github.com/Miguell390/geminiapp)

Date: March 2025 – June 2025

- Designed and developed a full-stack AI chatbot application with a modular frontend-backend architecture using JavaScript, React, and Express.js.
- Integrated Google Generative AI for advanced conversational capabilities.
- Implemented RESTful APIs and secure data exchange between the frontend and backend using Axios and CORS.
- Developed user-friendly interfaces and ensured responsive design for optimal user experience.
- Managed file uploads and document parsing, including PDF support, with Multer and pdf-parse.
- Automated development workflow with nodemon and utilised dotenv for environment variable management.
- Documented the project and maintained version control with Git and GitHub.

## Intelligent Financial Tracker – Personal Full-Stack Project

GitHub: <https://github.com/Miguell390/intelligentTransactionTracker>

Date: July 2025 – August 2025

- Designed and developed a full-stack financial tracking application using the MERN Stack(MongoDB, Express.js, React and Node.js) to provide users with actionable financial insights.
- Integrated the Google Gemini API to create AI-powered features, including automatic categorisation and a personal financial coach that could provide your spending analysis.
- Built a dynamic frontend with React, featuring interactive charts (Charts.js), collapsible components and a modal-based UI for a clean and responsive user experience.
- Built using RESTful API with Node.js and Express.js to handle all CRUD operations for transactions and budgets, ensuring secure and efficient data exchange.
- Developed an advanced history section with dynamic monthly and categorical filtering and allowing users to deeply analyse their spending and income patterns.
- Managed database schemas and interactions with MongoDB using Mongoose for persistent data storage of user transactions and budget goals.

## SACA (Swinburne Adaptive Clinical Assistant) – NLP Backend Developer (Group Project)

GitHub: <https://github.com/urgensherpalama/saca>

Date: August 2025 – November 2025

A full-stack, microservices-based digital health platform designed to provide accessible preliminary medical guidance to underserved communities by overcoming linguistic and geographical barriers.

- Architected and developed a Python-based NLP microservice from scratch using **Flask** and **SpaCy** to serve as the core data extraction engine for the entire platform.
- Implemented a dual-language processing pipeline, utilising **SpaCy's PhraseMatcher** for high-efficiency English symptom extraction and a custom dictionary-lookup system for **Yolŋu Matha**, directly fulfilling the project's primary objective.
- Engineered a robust negation detection logic by analysing preceding tokens (e.g., "no fever" vs. "fever"), significantly increasing the clinical accuracy and safety of the data passed to the ML triage model.
- Integrated **OpenAI's Whisper** model to build a speech-to-text pipeline, creating an audio input modality (/process\_audio) that enhances accessibility for users with literacy challenges.
- Designed and exposed a clean RESTful API with distinct endpoints (/process\_text, /process\_audio) that provided a clear, reliable contract for integration with the frontend and ML services.
- Containerised the NLP service using **Docker**, ensuring a consistent and reproducible development environment for the team.

**Technical Stack:** Python, Flask, SpaCy, OpenAI Whisper, Pandas, Docker, Git, GitHub, REST APIs

## Work Experience

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**Coles Local** Glenferrie, VIC

**OPS Trade Manager / Night Duty Manager** · August 2025 – Present

**Grocery Operations Team Member** · Nov 2023 – Present

- **Leadership & Operations:** Lead night-time store operations as Duty Manager, overseeing site security, staff supervision, and end-of-day financial reconciliations (safe counts and register balancing).
- **Inventory Analysis:** Manage trade operations by analysing sales data and inventory reports to forecast ordering, optimise supply chain logistics, and minimise waste/shrinkage.
- **Crisis Management:** Act as the primary point of contact for operational escalations, resolving complex customer issues and emergency protocols in a high-pressure environment.
- **Process Improvement:** Previously managed backstock logistics and gap scans as a Team Member, ensuring high inventory accuracy and efficient shelf replenishment workflows.

**Delaware North (MCG and Marvel Stadium)** · Melbourne, VIC

**Food and Beverage Attendant (Casual)** · August 2023 – Present

- Deliver high-volume customer service, serving thousands of patrons during major sporting events, ensuring accuracy and speed under pressure.
- Maintained strict adherence to health, safety, and RSA guidelines while managing cash handling and order processing.

**Compass Group (Rod Laver Arena & Margaret Court Arena) · Melbourne, VIC**

**Food and Beverage Attendant (Casual) · June 2024 – Present**

- Provide premium hospitality service to corporate and VIP guests during high-profile events, maintaining strict discretion and professional standards.
- Demonstrate adaptability in a fast-paced environment, coordinating effectively with kitchen and service teams to ensure timely delivery during peak service windows.
- Resolve guest inquiries and handle payment processing proficiently using various POS systems.

**Previous Employment**

- **Kitchen Hand** – Kori Ice Cream (Aug 2022 – Feb 2024)
- **All-Rounder** – Subway (Aug 2023 – Feb 2024)

**Additional**

- **Languages:** English (Native), Mandarin (Conversational), Malay
- **Interests:** Competitive Pokémon TCG meta analysis, Basketball, Baking and Reading.