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EDUCATION

Monash University Malaysia

Bachelor of Computer Science in Advanced Computer Science

February 2024 – Expected 2027

GPA: 4.0/4.0 (90.24 WAM)

- **High Achiever Award** recipient, awarded to the top 1% of students.

EXPERIENCE

Software Engineering Intern

JurisTech (Juris Technologies Sdn Bhd)

Kuala Lumpur, Malaysia

November 2025 – February 2026

- Built and enhanced reusable Angular/Ionic UI components (cards, dropdowns, accordions, status indicators) for JurisTech's centralized component library, shipping features used across multiple client-facing loan origination and collection products.
- Developed and integrated REST APIs for client-facing mobile pages spanning the loan lifecycle (payment collection, cash deposit, application creation), validating functionality through Postman-driven API and integration testing.
- Collaborated within a 2-week Agile sprint cycle (daily scrums, sprint planning, review, and retrospectives) using Git, submitting all changes through peer-reviewed merge requests validated by QA before production deployment.

Full-stack Developer Intern

Wessy

Indonesia

June 2022 – December 2022, May 2023 – June 2023

- Progressively migrated Wessy's backend from JavaScript to TypeScript, then TypeScript to Go, across two internship terms, improving code maintainability, reliability, and performance.
- Built key platform features, including a Zoom API integration for automated schedule creation, and partnered with senior engineers to integrate a face-detection model into e-commerce camera systems for smarter user analytics.
- Wrote unit and integration test suites (Jest, Go's native testing tools) and ran functional/API testing via Postman, reducing deployment bugs and ensuring pre-release reliability.
- Authored Wessy's API documentation, streamlining developer onboarding and guiding future feature development.

SKILLS

AI/ML & LLMs: LLM Integration, RAG Pipelines, Vector Search, Model Context Protocol (MCP), Prompt Engineering, Vision Models, Hermes Agent

AI-Native Development: Cursor, Claude Code, Agentic Workflows, Spec-Driven Development

Frontend: React.js, Next.js, TypeScript, JavaScript, HTML, CSS, TailwindCSS, Jetpack Compose, Angular, Ionic

Backend & Data: Node.js, MongoDB, MySQL, PostgreSQL, REST APIs, Go, Java, Python, PHP, PL/SQL

Cloud & DevOps: AWS (EC2, ECS, Bedrock), Docker, Postman, Git, AGILE/Scrum

Languages Spoken: Bahasa Indonesia (Native), English (Fluent), Melayu (Elementary)

PROJECTS

MAI – AI Assessment Builder for Policy-Grounded Rubric Generation | *Monash University Malaysia*

November 2025 – Present

- Building an AI-assisted tool that generates assignment briefs and marking rubrics aligned with Monash University policy.
- Designed a RAG pipeline paired with an LLM chatbot to support policy-grounded, conversational assessment design.
- Modeling relationships between policies, learning outcomes, and rubric criteria in Neo4j to improve retrieval accuracy.
- Prototyping semantic document retrieval and prompt-engineering improvements to increase rubric relevance.

Duski – Claude-Powered Personal Assistant for Windows | github.com/Skooyo/Duski

September 2026

- Built an Electron and TypeScript system-tray assistant that opens a radial menu at the cursor on a global hotkey, giving one-keystroke access to AI chat, text translation, and on-screen area translation.
- Routed all LLM work through the Claude Code CLI, giving the chat agent file, shell, web, and MCP tool access with streamed Markdown replies and no API key management.
- Implemented screen-region translation and Q&A by cropping screenshots for Claude's vision input, removing the need for a separate OCR library, and captured selected text via the clipboard while restoring its previous contents.

Expense Tracker – AI-Assisted Android Spending Tracker | github.com/Skooyo/expense_tracker

August 2026

- Built an Android app that automatically logs spending by intercepting bank and e-wallet payment notifications via a NotificationListenerService, removing the need for manual entry.
- Implemented LLM-based parsing (OpenRouter) to extract merchant and amount and filter out promotional messages, backed by a regex fallback for offline reliability.
- Built the data layer with Room and Hilt DI and the UI in Jetpack Compose, delivering day/week/month spending summaries with category breakdowns.

Attendance Crawler – Always-On Attendance Digest on Hermes Agent |

August 2026

github.com/Skooyo/Attendance_Crawler

- Deployed a Python crawler as two scheduled jobs on a Hermes Agent gateway that runs unattended: a weekly collect job scrapes Moodle, EdStem, and Gmail into SQLite, and a digest job posts a filtered summary to Discord through the gateway's delivery layer.
- Designed the scheduled path to use no LLM tokens (Hermes no-agent mode), reserving OpenRouter vision extraction and Tesseract OCR for codes embedded in images.
- Normalized codes from three sources into one schema (unit, session type, number, time, code) and filtered the digest to the user's enrolled tutorial and workshop slots.

Workflow Management with MCP – Enterprise RAG Chatbot for BSN |

April – May 2026

github.com/Skooyo/Workflow_Management_MCP

- Co-developed an enterprise AI chatbot solution for Bank Simpanan Nasional (BSN), integrating Retrieval-Augmented Generation (RAG) and Model Context Protocol (MCP) to provide document-grounded assistance across Disaster Recovery, IT Helpdesk, and Compliance workflows.
- Designed and implemented a full-stack AI architecture consisting of a Next.js frontend, Vercel AI Gateway, FastMCP server, Milvus vector database, and Supabase backend, enabling intelligent document retrieval, workflow automation, and automated IT support ticket generation.
- Developed RAG pipelines that retrieve and cite BSN internal documentation, reducing hallucination risks and improving enterprise knowledge accessibility compared to traditional manual document searching and full-context LLM prompting.
- Implemented a modular MCP-based architecture to support future migration from cloud-based LLM APIs to locally deployed on-premise models, improving data sovereignty and compliance requirements for financial institutions.

AWAS – Real-Time Traffic Violation Pipeline | github.com/Skooyo/AWAS-Traffic-Monitoring-System

May 2026

- Co-built a real-time streaming pipeline that ingests multi-camera traffic events through Kafka producers and detects instantaneous and average speed violations with Apache Spark Structured Streaming.
- Designed stream-stream joins across camera pairs with per-stream watermarks to handle late and out-of-order events, logging unmatched records for auditing.
- Persisted consolidated daily violation records to MongoDB and built a live violation-rate dashboard and Folium camera map; containerized Kafka, Spark, and MongoDB with Docker Compose.

MirrorFi – Solana Yield Farming Web Application | github.com/mirrorfi

November 2025

- **Won 1st place among Mega Hackathon submissions** for innovation, technical implementation, and impact.
- Co-developed a yield farming dApp on Solana, replicating and optimizing existing DeFi strategies to improve ecosystem accessibility.
- Built a responsive frontend with Next.js, React Flow, and TailwindCSS, integrated directly with the blockchain layer.

MyGovLinkAI – AI Government Services Bot (MCP) | *Great Malaysia AI Hackathon 2025 – APU*,

September 2025

github.com/Mizore66/MyGovLinkAI

- Built an MCP Server-Client system against a government database, giving citizens 24/7 access to records such as license data, tax invoices, and summons.
- Integrated AWS Bedrock to generate natural-language responses, improving accessibility and usability of government services.
- Deployed the MCP Server and Client on AWS EC2 for high availability and reliability at scale.
- Shipped Telegram and Discord bots on AWS ECS, letting citizens interact with government services through familiar messaging platforms.

SimplifAI – AI-Powered Voice-Controlled Crypto Management Platform | *EthBangkok 2024*,

November 2024

github.com/SimplifAI-Eth/SimplifAI

- **Won 3 bounties at ETHBangkok 2024:** Best Portfolio Tracker (1inch), Runner-up (Circle Web3), and BlockScout Explorer Big Pool Prize.
- Built secure AI agents on Phala Network's TEE, integrating 1inch, Circle Web3, and Pyth to support token swaps, portfolio tracking, real-time price analysis, and automated trade execution across Ethereum and Polygon.
- Reduced complex crypto workflows to 3-step voice interactions (connect wallet, speak command, confirm), improving accessibility for newcomers.