

# DESMOND

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## SKILLS

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- **Software Development:** JavaScript, Java, PHP, C++, React, React Native, Next.js, Vite, Node.js, Express, Spring Boot, WordPress, Tailwind CSS, Bootstrap, Docker, Firebase, Supabase, MySQL, PostgreSQL
- **Machine Learning & AI:** Python, NumPy, Pandas, Matplotlib, Plotly, RAG, Context Engineering, Context Engineering
- **Language:** English, Bahasa Indonesia, Chinese

## EDUCATION

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### University of London – Singapore Institute of Management

Sep 2023 - Sep 2026

*Bachelor of Science in Computer Science (Machine Learning and AI)*

(Expected)

- **Academic Standing:** On track for First Class Honours (Current Average: 81.94% | GPA: 4.0/4.0)
- **Scholarship:** Recipient of the SIM Academic Excellence and Leadership Scholarship 2025

## PROJECTS

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### NutritionLM – Nutrition AI Assistant (<https://github.com/desraymondz/NutritionLM>)

- Secured **1st Place** by engineering an intelligent nutrition logger that utilises LLM structured outputs to instantly convert casual meal descriptions into precise nutritional data, eliminating manual entry.
- Built a **context-aware dietary agent** that actively monitors the user's daily intake to provide proactive, personalised feedback
- Implemented strict safety guardrails via **system prompting** to ensure the agent acts as a responsible dietician, preventing the generation of harmful advice or extreme diet recommendations.

### Batam1Spa – ERP-Style Spa Management Web App with Integrated Business Workflow.

- Manage project workflow and client relations, ensuring seamless coordination between client requirements and delivery milestones
- Develop RESTful APIs with Spring Boot, handling staff, service, and package management for scalable operations
- Design and implement admin panel UI, supporting multi-level access and dynamic scheduling

### VeCook – AI-Powered Cooking Companion (<https://github.com/desraymondz/VeCook>)

- Implemented hand gesture recognition using ml5.js library for hands-free navigation of recipes
- Developed voice-to-text and text-to-voice functionality for seamless AI-assisted cooking
- Built frontend interfaces and integrated real-time recording features

### EDA – Indonesia's Inflation and Investor Benchmark Analysis (<https://github.com/desraymondz/EDA-indonesia-macro>)

- Collected and cleaned data from multiple sources using APIs and web scraping techniques
- Cleaned and preprocessed datasets using Pandas
- Created clear and accessible visualizations and reports
- Established a benchmark for investment returns to outperform inflation and currency exchange effects

## CCA & LEADERSHIP EXPERIENCES

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### Technical Director – SIM IT Club

May 2025 - Present

- Lead technical strategy and implementation for the club's IT projects and workshops
- Plan and execute a 5-month web development curriculum, training members from frontend fundamentals to full-featured apps with React, Next.js, and deployment via Vercel
- Manage internal web development projects, coordinating subcommittee members, tracking progress, and ensuring timely delivery
- Oversee technology infrastructure and project workflows, maintaining quality output and smooth operations
- Mentor and guide members on coding best practices, project implementation, and problem-solving

### Operations Executive – AIESEC in SIM

Feb - Nov 2024

- Developed an automated bulk email system, replacing manual processes and improving productivity
- Managed AV room operations, including background music and ad breaks, ensuring smooth event flow
- Curated registration, payment data, confirmation emails, and assisted the chair
- Integrated Google Sheets automation to send e-certificates to 100+ participants efficiently