

# MARWAN MOHAMED ELMARAGHY

CS Student | Junior Developer | AI Enthusiast

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## PROFESSIONAL SUMMARY

Driven Computer Science student at Sunway University and Junior Developer at Dynamics Business Solutions with 6+ years of coding experience. Strong foundation in Python, Java, and C++ with a growing specialization in Artificial Intelligence and Machine Learning. Award-winning competitor with a track record of building production-quality software, from local AI assistants to full-stack web applications. Seeking opportunities to apply technical depth and creative problem-solving in AI engineering and software development roles.

## PROFESSIONAL EXPERIENCE

### Junior Developer

*Dynamics Business Solutions*

2025 - Present

Dubai, UAE

- Started as an intern and earned a continued role based on performance and initiative
- Develop and maintain enterprise-grade low-code solutions for business clients
- Collaborate with senior engineers on system architecture, implementation, and code reviews
- Write clean, tested, and well-documented code following professional team standards
- Participate in agile sprint ceremonies and contribute to production debugging efforts

## EDUCATION

### BSc Computer Science (Artificial Intelligence)

*Sunway University*

2025 - 2029 (Expected)

Kuala Lumpur, Malaysia

**Relevant Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Discrete Mathematics, Computer Architecture, Introduction to AI, Software Engineering, Database Systems, Linear Algebra

- Participated in the annual Sunway University hackathon
- Pursuing Artificial Intelligence related subjects academically and independently

## TECHNICAL SKILLS

**Languages:** Python, Java, C++, TypeScript, JavaScript, SQL

**AI & Data:** Machine Learning, NLP, Pandas, NumPy, LLM APIs

**Frontend:** React, Next.js, Tailwind CSS, HTML5, CSS3

**Backend & DB:** Node.js, Express, PostgreSQL, MongoDB, REST APIs

**Tools & DevOps:** Git & GitHub, VS Code, Docker

**Concepts:** Data Structures, Algorithms, OOP, System Design, Agile

## PROJECTS

### Personal AI Assistant

*Solo Developer & Architect*

2025

**Tech:** Tauri, React, Rust, TypeScript, Ollama, SQLite, Whisper.cpp

- Built a fully local, privacy-first AI assistant for macOS with voice control, memory, and system integration
- Integrated calendar, contacts, reminders, notes, and location services via AppleScript and CoreLocation
- Implemented RAG-powered knowledge base with vector search and LLM query classification

### Portfolio Website

*Designer & Developer*

2025

**Tech:** Next.js, TypeScript, Tailwind CSS, Motion, shadcn/ui

- Designed and built a premium personal portfolio with futuristic UI, animated timeline, and canvas star field
- Implemented interactive resume tabs, project filtering with pagination, and EmailJS contact form

## AI Study Assistant

2024

*Solo Developer*

**Tech:** Python, NLTK, Flask, React, SQLite

- Developed an NLP-powered study companion that generates summaries and practice questions from notes
- Reduced average study prep time by 40% based on user feedback from 50+ university students

## ACHIEVEMENTS & AWARDS

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### 2nd Runner Up: AI & Data Science Competition

2024

*Emirates Aviation University*

- Built a facial recognition door system using Python, Arduino, and circuitry, competing across the UAE

### Computer Programming Award

2024

*Abu Dhabi International Private School (MBZ)*

- Awarded the Computer Programming Trophy for the graduating class of 2024

### University Hackathon Participant

2025

*Sunway University*

- Collaborated with peers to build innovative solutions under time pressure