

Joshua Wang Min Yung

Computer Science Student

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PROFESSIONAL SUMMARY

Computer Science student with practical experience across software development, applied AI, data analysis, and technology consulting. Completed a Technology Consulting internship at Ernst & Young, contributing to AI-powered solutions, solution architecture, technical documentation, and digital transformation initiatives. Brings hands-on experience with Python, TypeScript, Node.js, FastAPI, MongoDB, and data-driven problem solving, alongside leadership experience as a Student Voice Leader.

EXPERIENCE

Technology Consulting Intern | Ernst & Young, Mauritius

May 2026 – Jul 2026

- Contributed to the design and development of AI-powered solutions and use cases within enterprise technology and digital transformation initiatives.
- Developed and tested TypeScript/Node.js components for AI usage monitoring and anomaly detection, including statistical detection and severity-scoring logic.
- Supported backend development for an AI governance platform, including application-registry and API functionality backed by MongoDB.
- Created and tested Splunk SPL queries to support analysis of AI-related activity in enterprise proxy logs and monitoring workflows.
- Worked with AI governance and risk-management concepts, including NIST AI RMF, as part of technical analysis and platform development.
- Researched and benchmarked AI technologies and LLM deployment approaches, including local and cloud options, to support solution design and cost/performance analysis.
- Supported solution architecture, technical documentation, presentations, demonstrations, stakeholder discussions, workshops, and project deliverables.

PROJECTS

Personal Finance Dashboard | Independent Project | Python, Streamlit, Pandas

- Designed and built an offline personal-finance dashboard transforming raw Mauritian bank CSV statements into KPI cards, trend charts, and actionable spending insights.
- Replaced a cloud AI dependency with a fully offline, rule-based categorization and insights engine, improving privacy and eliminating recurring API costs.

Crochet Pattern 3D Renderer | Independent Project | React, TypeScript, Three.js, Python, FastAPI

- Developing a full-stack system that transforms written crochet patterns and stitch diagrams into interactive 3D models through parsing, graph-based structure reconstruction, and real-time rendering.
- Built a dual-format parser for written instructions and stitch diagrams, producing an internal stitch graph that models loop connections and yarn topology.
- Engineered procedural yarn geometry to represent thickness, curvature, tension, and stitch orientation, rendered in real time with Three.js / React Three Fiber and WebGL.
- Implemented interactive 3D visualization features including rotation, zoom, cross-sectional inspection, and stitch highlighting on a React/TypeScript frontend backed by FastAPI.
- Separated parsing, reconstruction, geometry, and visualization into maintainable layers and added automated testing with Vitest, Playwright, and Pytest.

LEADERSHIP & REPRESENTATION

Student Voice Leader | Middlesex University Mauritius

2025 – 2026

- Elected by peers to represent the Computer Science cohort; designed structured feedback surveys and compiled findings into formal reports driving university-level discussion on student experience.

School Prefect | Morning Star School

Nov 2022 – 2024

- Led weekly school assemblies and upheld student discipline as a trusted role model, building public-speaking, leadership, and cross-group communication skills.

VOLUNTEERING

- English Translator (French to English Interpreter) | CTMI, Church Team Ministries InternationalJan 2025 – Present
 - Deliver live French-to-English interpretation at twice-monthly prayer meetings, ensuring accurate real-time access for English-speaking attendees.
- Fundraising Volunteer | APSA InternationalDec 2024
 - Selected as one of thirty police-cleared collectors for a nationwide public fundraising campaign, canvassing across Mauritius over 14 consecutive days.
- Volunteer | NouZanimo Humane Trust | Animal Welfare2024 – Present
 - Contribute to an animal-welfare NGO's dog adoption and welfare initiatives in Mauritius.

EDUCATION

- BSc Computer Science (Systems Engineering) | Middlesex University MauritiusSep 2025 – Aug 2028 (Expected)

Coursework: Foundations of Computing (discrete mathematics, graph algorithms), Databases & Information Systems (SQL, ERD/normalization), Operating Systems (CPU scheduling algorithms)
- GCE A-Level | Morning Star School2023 – 2024

Biology, Chemistry, Mathematics
- GCE O-Level | Morning Star SchoolJul 2021 – Nov 2022

5 A*, 1 A

CERTIFICATIONS & AWARDS

- IELTS Academic, Band Score 8.5, IELTS Official (Issued Dec 2024, Expires Dec 2026)
- DELF B1, France Éducation Internationale (Oct 2021)
- EY x Middlesex University Mauritius AI Hackathon, 3rd Place (2026)
- Build with Gemma: Blue Mauritius & Beyond, Coup de Cœur Award (2026)
- The Duke of Edinburgh's International Award: Gold (Feb 2026) and Bronze (Sep 2022)

SKILLS

- Programming Languages: JavaScript, TypeScript, Python, SQL
- Backend & APIs: Node.js, FastAPI, REST API design, MongoDB, serverless-style handler architecture
- Frontend & Graphics: React, Three.js, React Three Fiber, WebGL, HTML, CSS
- Data & Applied AI: Statistical anomaly detection, LLM cost/performance benchmarking, AI governance concepts, NIST AI RMF
- Algorithms & Computational Methods: Graph algorithms, procedural geometry generation, parser design
- Security & Monitoring Tools: Splunk (SPL query authoring), Cisco Umbrella log analysis
- Testing & Version Control: Vitest, Playwright, Pytest, Node.js test runner, Git, GitHub
- Dev Tooling: ESLint, Ruff, MyPy, Vite
- Productivity: Microsoft Office Suite
- Languages (Spoken): English (Native), French (Professional working proficiency, DELF B1), Mandarin (Limited working proficiency), German (Basic)