

TAHA-YASSEN SHALABY

Mathematics & Computer Science Educator

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PROFILE

Mathematics and Computer Science educator with 7+ years delivering the Cambridge International curriculum across prestigious schools in Cairo, currently at Wycombe Abbey Cairo East. Brings an exceptionally rare combination of deep classroom expertise and genuine industry credentials: co-founded an AI and data science company that shipped production machine learning systems for Fortune 500 clients, and continues to work as an AI engineer alongside teaching. A Mechatronics Engineering graduate with hands-on experience from IGCSE through to advanced Computing, able to connect curriculum to real-world application in ways few classroom practitioners can.

TEACHING EXPERIENCE

Mathematics & Computing Teacher • *Wycombe Abbey Cairo East* • Cairo, EG *Sept 2025 – Present*

- Deliver Cambridge Mathematics curriculum to Years 7 and 8 Checkpoint students, preparing learners for comprehensive end-of-stage assessments
- Teach Computing across Primary and Lower Secondary (Years 1–8), developing digital literacy, computational thinking, and programming skills
- Design differentiated lesson plans aligned to Cambridge assessment objectives, incorporating inquiry-based and cross-curricular approaches
- Draw on active industry experience in AI and machine learning to bring authentic, contemporary relevance to Computing lessons

Homeroom Teacher — Milepost 3 • *Kompass Education* • Cairo, EG *Jul 2024 – Aug 2025*

- Completed IPC Level 1 Certification: Implementing the IPC, demonstrating mastery of inquiry-based and thematic curriculum design
- Delivered English, Mathematics, Science, and Health through the IPC framework to students aged 9–12, with strong cross-curricular integration

Mathematics Educator • *New Capital English School* • Cairo, EG *Sept 2023 – Jun 2024*

- Taught Cambridge Mathematics for Years 6, 7, and 8; completed Checkpoint examinations for Years 6 and 8
- Built a custom automated reporting system and gradebook calculator, improving assessment efficiency and data accuracy school-wide

ICT Educator • *Futures British School* • Cairo, EG *Sept 2017 – Sept 2018*

- Delivered ICT curriculum for lower secondary and pre-IGCSE, aligned with Cambridge standards
- Founded and led a robotics club introducing students to coding, electronics, and STEM thinking — generating sustained co-curricular engagement

Mathematics Educator • *New Capital English School* • Cairo, EG *Sept 2018 – Sept 2020*

- Developed Cambridge-aligned Mathematics curriculum for lower secondary Checkpoint and pre-IGCSE
- Designed automated reporting and gradebook tools that significantly improved the school's data management

INDUSTRY & TECHNICAL BACKGROUND

The following roles underpin the real-world computing expertise that enriches every lesson:

AI Engineer / Consultant • *Snappers — AI Cybersecurity* • Cairo, EG *May 2025 – Present*

- Building agentic LLM applications and SOC automation tools for cybersecurity use cases; on-prem deployment with custom tool-calling agents
- Tech stack: React, FastAPI, PostgreSQL, LangChain, Ollama/Qwen, Docker

Co-Founder & Chief Data Scientist • *Laccuna (AI Startup)* • Toronto, CA *Dec 2019 – Dec 2022*

- Co-founded and led the technical direction of an AI startup; delivered 12+ production ML projects for Fortune 500 clients powering 2M+ predictions/month
- Led a UCI graduate engineering team through a multi-million-dollar manufacturing engagement; built NLP, forecasting, and deep learning systems at scale

EDUCATION

B.Sc. Mechatronics Engineering • *Arab Academy for Science, Technology & Maritime Transport (AAST), Cairo, EG* *2014 – 2019*

Graduation Project: Autonomous Attendance Robot using Facial Recognition

Computer Science Coursework • *New Jersey Institute of Technology (NJIT), NJ, USA* *2011 – 2012*

High School IGCSE • *Al-Rehab City, Cairo, EG* *2011*

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

IPC Level 1 — Implementing the International Primary Curriculum (inquiry-based and thematic instruction)

Cambridge International — 7+ years delivering Cambridge Checkpoint & IGCSE Mathematics and Computing curricula

SKILLS

Curriculum: Cambridge Checkpoint & IGCSE, IPC Framework, Pre-IGCSE Mathematics & Computing

Pedagogy: Inquiry-Based Learning, Differentiated Instruction, Formative & Summative Assessment, Cross-Curricular Design

EdTech: GeoGebra, Desmos, Wolfram Alpha, Google Classroom, Scratch, Python (classroom use)

Technical: Python, Data Science, Machine Learning, LLM applications, AWS / GCP, JavaScript, Docker

Languages: English (fluent), Arabic (native)