

Hussein Ayman Rookba

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Objective

A Computer Science graduate with strong programming, AI, and software development skills. Experienced in teaching and mentoring students of various ages, seeking a TA position to assist faculty and enhance the learning experience through engaging and interactive teaching methods.

Education

Faculty of computer and artificial intelligence, Helwan University, Egypt Sep 2016 - Aug 2020
Bachelor of Computer Science

Thesis: Developed a project to assist patients with physiotherapy exercises, providing high-accuracy pose estimation and pose comparison with a minimum accuracy of 80%.

Publications

Realtime Multi-Person 2D Pose Estimation IJANA.2020.11069
Rana Osama, Hussein Ayman, Nouran Mosaad, Nourhan Ebrahim, Adriana Mounir,Supervised by Dr. Mona Nasr,

Work Experience

Programming instructor **123 Mentor Academy** Nov 2024 - Present

- Teaching Kids form 6 Years old programming basics

Programming instructor **Pea Learning Academy** Nov 2024 - Feb 2025

- Teach Computer for Kids from 6 years old

Programming instructor **Algorithmics Academy** Oct 2024 - Present

- Teach Computer Science fields including Coding for kids, Python, Game design and Building websites

Online Programming instructor, DECI **AI-Mentor Organization** Jul 2024 - Present

- Teach Computer Science fields including Frontend Development, Backend Development, Mobile App Development, AI, and Security to students from Grade 7 to Grade 11.
- Utilize various online platforms and tools to engage students and enhance learning.

Technical content creator **EduGN Tech** Apr 2024 - Present

- Collaborated with the EduGN Tech Team, consisting of two members, to develop a comprehensive AI course path for students aged 7-18.
- Design age-appropriate curriculum and materials to introduce students to AI concepts.

AI and Software Instructor	National Technical Sciences School, Ta'heel	Nov 2023 - Apr 2025
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Nov 2023 - Apr 2025

- Teach programming and AI fields to students from Grade 11 to 13 ,and design lesson plans and presentations for each session.

Online Coding Instructor	Feb 2023 - Present
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Feb 2023 - Present

- Teach programming basics to students aged 6-18.
- Use Scratch for younger students and Python for older students.
- Develop age-appropriate lesson plans and activities.
- Provide support and feedback to enhance student learning.

Web Developer (Remote)	Indo International Frontiers, Nashik, India	Jun 2018 - July 2018
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Indo International Frontiers, Nashik, India Jun 2018 - July 2018

Jun 2018 - July 2018

- Developed and maintained online store websites using the PHP Laravel framework.

Technical Skills

- Python
- PHP
- JavaScript
- SQL
- C
- C++
- Java
- HTML, CSS
- Laravel, Git, GitHub
- scikit-learn, pandas, numpy
- Scratch, Blockly, RoboMind
- MIT App Inventor

Soft Skills

- Managing academic activities
- Mentoring & providing feedback
- Guiding student projects
- Effective teaching & presentation
- Clear written & verbal communication
- Public speaking
- Coordinating with team members
- Collaboration across disciplines
- Working in diverse teams

Volunteering work

Served as an Academic Member and Technical Member in various student activities such as:

- Microsoft Student Partners, FCIH Student Union and Minders FCIH
- participated in the Devology Workshop at SCCI Cairo University.

Achievements

Participant	ECPC, Alexandria, Egypt	Sep 2019 - Oct 2019
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ECPC, Alexandria, Egypt Sep 2019 - Oct 2019

Sep 2019 - Oct 2019

Participant	SnackDown , CodeChef's Annual Competition	Jul 2017 - Jul 2017
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SnackDown, CodeChef's Annual Competition Jul 2017 - Jul 2017

Jul 2017 - Jul 2017

Language

- Arabic
- English