Mohamed Abead

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Education

RICE UNIVERSITY   Houston, TX
B.S in Computer Science, minors in Data Science and Entrepreneurship. GPA: 3.91   August 2020 – May 2024
<u>Relevant Coursework:</u> Discrete Mathematics and Algorithms, Computational Thinking, Fundamentals of Computer Engineering
<u>Fall 2021:</u> Reasoning about Algorithms (COMP 382), Intro to Program Design (COMP 215), Probability and Statistics (STAT 310)

NERMIEN ISMAIL BRITISH SCHOOL   Cairo, Egypt
Founder of Computer Science Club, Highest Course Load Ever Taken, Valedictorian   2016-2019

Experience

Rice University, Electrical and Computer Engineering Department   Houston, TX
Undergraduate researcher, Full-time   May 2021-August 2021
• Designed web scrapers to build flood models (Python –selenium, beautifulSoup)
• Used geospatial analysis to geometrically analyze different hypotheses (Python - geopandas)
• Deployed flood sensors that use radar and cellular technology

Affectiva, **World's Leading Emotional AI Company**   Boston, MA
Data Visualization Intern   July 2020 – August 2020
• Worked on enhancing telemedicine communication using emotional AI
• Monitored and Analyzed doctor-patient interaction in real time (Python and Affectiva's SDK)

Rice University, Computer Science Department   Houston, TX
Teacher Assistant (TA), Computational Thinking (COMP 140)   August 2021-present
• Holding weekly officer hours to assist students, and grading students' assignments and exams

Paraztec   Cairo, Egypt
Co-Founder and CEO   December 2018 – May 2020
• Directing the development of an electronic glove that allows paralyzed people to use computers
• Raised funding of 35,000 EGP by winning business competitions and participating in incubation programs
• Incubated by the British Council 2030 Incubator, one of 30 startups selected out of 1500+ startups, **top 3 in demo day**

Awards

• **HackRice X winner,** out of 80+ teams from Rice and other top universities.
• **Top in the World,** IGCSE Computer Science, **Outstanding Cambridge Learner Award** 2018
• **Bronze Medal, Egyptian Olympiad in Informatics (EOI) in 2018 and 2019**
• **3rd in Vodafone Hackathon 2018**, out of 300+ teams, the second largest hackathon in Egypt.
• **Top 9 in EverybodyCan Business Competition 2019**, out of 360+ teams

Leadership and Activities

HackRice, Rice's Annual Hackathon   Houston, TX
Publicity and Registration Chair   March 2021-present
• Handling the logistics and publicization of HackRice 11

Competitive College Club Cairo • EducationUSA Egypt   Cairo, Egypt
Vice President   August 2018 – December 2020
• Co-organized college fairs in 2018 and 2019, each having 800+ attendees & 20+ admission officer from top U.S colleges
• Monitored 3 sub-clubs and guided 39 members through U.S admission process through a year-long program

Projects

Personal website (mohamedabead.me**) (**GitHub**):** • Developed my personal website from scratch
Goleador (GitHub**):** • Using Zoom's and Affectiva's SDK to analyze emotions of doctors and patients
VibeCheck (GitHub**):** • Used emotional AI to monitor online classrooms and analyze it

Skills

Technical: C/C++ • Python (Selenium, beautifulSoup, geopandas, pandas, matplotlib) • HTML • CSS • JS
Languages: English (Fluent) • Arabic (Native)