# Asaad Al-Barwani

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## Personal profile

I have always enjoyed anything related to computing, and it has always been a part of my life in some way. In recent years i have been able to explore different aspects of computing more and more, which furthered my love for the industry, and cemented its place as the field I will pursue a career in.

## Competencies

**Problem solving**
I enjoy subjects which involve solving a problem, and i find it interesting how different people can obtain the same result through different processes and methods.

**Staying positive**
I tend to work on a problem until i have reached a solution i believe is correct, and if it isn't, I learn from the experience in order to reach an appropriate solution the next time around.

## Work experience

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| June 2019 | **Junior Research Intern at the Krypt internship program** - NYUAD Cyber Security<br>Spent a week researching cryptography, quantum computing and key generation at the Krypt internship program in NYUAD. I researched Post Quantum cryptography, Blockchains, Key generation algorithms (Winternitz-OTS, coded in python) and Lightweight cryptography. I then presented my findings to all other members of Krypt along with a writing a research report. It was the most challenging week i had experienced up until that point, but i learned a lot about things i had never known before as well as learned how to persevere through tough situations. It was a very enjoyable experience and i am grateful to have had the opportunity. |

## Education

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| September 2018 - Present | **Python** - The British International School Abu Dhabi<br>Familiar with basic python programming, as well as slightly more complex python functions. |
| September 2018 - Present | **CiE iGCSE Computer Science course** - The British International School Abu Dhabi<br>Took the 2 year Cambridge Computer Science course: Grade: 9 |
| September 2018 - June 2020 | **Edexcel iGCSE Chemistry course** - The British International School Abu Dhabi<br>Took the 2 year Edexcel iGCSE Chemistry course. Grade: 7 |
| September 2018 - June 2020 | **Edexcel iGCSE Mathematics course** - The British International School Abu Dhabi<br>Took the 2 year Edexcel iGCSE Mathematics course. Grade: 8 |
| September 2018 - June 2020 | **Edexcel iGCSE Physics course** - The British International School Abu Dhabi<br>Took the 2 year Edexcel iGCSE Physics course. Grade: 9 |
| September 2018 - June 2020 | **CiE iGCSE Business Studies course** - The British International School Abu Dhabi<br>Took the 2 year Cambridge iGCSE Business Studies course: Grade: A* |

## Other interests

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| November 2019 - Present | **Learning the Godot game Engine + GD Script**<br>Learning the Godot Engine and it's recommended programming language; GD Script. Since November I have created multiple games, including a game for a 'Game Jam' known as the 'Kindred Community Jam' |

(https://barwani.itch.io/negative-construction) , in which I, along with a few others, placed 19th overall, as well as a game made in 3 days for the 'Ludum Dare' game jam (https://barwani.itch.io/sparks-of-light), in which I, along with a few others, placed 1555th overall. Through this I have learned a lot about Object Orientated Programming, as well as a hands-on approach to using programming to create a unique piece of software. I have also of course learned another programming language in this process.

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| January 2019 | **Participated in the TedxYouth@BIS Abu Dhabi event as a speaker**<br>Participated in the TedxYouth@BIS Abu Dhabi event as a speaker, the topic being 'Is coding really the language of the future?'. I gained valuable public speaking skills and useful knowledge on the topic which I will use to help further my understanding of programming's future as well as computing as a whole. https://www.ted.com/tedx/events/30271 |
| October 2018 - March 2019 | **Participated in a school production of 'Les Miserables'**<br>Committed to playing the Bass Guitar in a school production of 'Les Miserables'. Dedicated myself to learning the score and attending multi-hour practice sessions. |
| October 2018 - February 2019 | **International Olympiad Foundation**<br>Participated in the International Olympiad Foundation national competition. Took the examinations for four subjects: Maths, English, Cyber and Science, achieving top ten in the UAE all four subjects for the first round, coming in first in the first round for the Cyber subject. I entered the second round of the competition for all four subjects and achieved top 10 in the UAE for Cyber and English, and top 20 in the UAE for Maths and Science. |

**References**

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| Mr. Darren Sennit | **The British International School Abu Dhabi** - Physics Teacher<br>darren.sennit@bisad.ae |
| Mr. Bilal Jamal | **The British International School Abu Dhabi** - Computer Science Teacher<br>bilal.jamal@bisad.ae |
| Mr. Qamar Shah | **The British International School Abu Dhabi** - Maths Teacher<br>qamar.shah@bisad.ae |