



Passionate Computer Science graduate based in Riyadh with an MSc in Advanced Computing from King's College London and a First Class Honors BSc in Computer Science, bringing programming technical expertise and a keen interest in consultancy. As a Student Representative and Charity Committee Vice Chair, I've honed teamwork, communication, and networking skills. My experience as a charity committee vice chair and music hobbyist enhance my versatility in both technical and creative spheres. With a focused approach, I excel at multi-task concentration, intuitive decision-making, and a methodical work style, prioritizing accuracy. These traits contribute to my technical proficiency and commitment to excellence.

Projects

"k2117" Sample Reducer Plugin

MSc Final Project, 2023

Designed and developed a Sample reduction VST3 plugin meant to rival Decimort 2 that is compatible with all DAWs. Effects include Bit-Crushing, Sample rate reduction, Low pass filter, Gain, and Mix.

[Video](#), [Code](#)

Impact of Social Media platforms on Male and Female shopping

Data Visualisation, 2023

Developed a responsive and accessible web application designed to illustrate the impact of various social media platforms on the online shopping habits of both male and female demographics. Normalized the dataset, and the application utilizes entries derived from this standardized dataset to provide comprehensive insights into online shopping trends.

[Code](#), [Dataset](#)

Zap App

Advanced Web Development, 2022

Designed and developed a responsive web application Using React, Mongodb, and Express that allows park rangers to log pangolin sightings. Allows the user to also log the exact location using the Google GPS API.

[Video](#) [Code](#),

Arduino Synth

Final Year Project, 2022

An arduino synth that uses analog sensors and reads pitch, delay, and pick inputs. Utilizes the Tone library to play tones. Depending on pick activation, it produces sounds using either a pentatonic or minor scale. The analog sensor readings map to different musical notes through lookup tables (pentatonicTable and minorTable).

[Video](#), [Code](#)

Comparison Of Classifiers Individually And In An Ensemble Intelligent Systems, 2021

Evaluate the performance of different classifiers, both individually and in a stacking ensemble, using cross-validation on a spam classification dataset. The metrics used for evaluation include accuracy and precision.

[Code](#), [Dataset](#)

Other Projects

Aspiring Music Producer, 2017-

Found my passion in DJ'ing during highschool where we started an online radio. I then went on to become a music producer and worked with the likes of Velous and Allen Ritter on songs with established artists pending release. I compose both original and sample-based compositions using FL Studio.

[Music](#)

Work Experience

Sept 2022 -
London

Referee/Referee Trainer, Go Mammoth.

Refereed and trained 4 future referees in football and dodgeball.

Sept - Oct 2019,
London

University of Brighton Student Representative, University of Brighton.

Provided 1-to-1 tours of the university accommodation to future students and their parents/guardians, answering questions, and giving general guidance signposting for any concerns they might have.

Nov 2017 - Jun 2018,
Riyadh

Charity committee Vice Chair, British International School Riyadh

Worked as part of a team of organisers to organise events for charities that our school was partnered with.

June - June 2018,
Riyadh

6th Form Experience, Dorsch Group

Five days of work experience. Helped gain an insight into the designing and integration of the Riyadh metro.

Education

September 2022 -
September 2023

MSc Advanced Computing (King's College London)

Pass Thesis: "VST3 sample reduction plugin that competes with Decimort" Thesis mark: 62/100.

September 2019 -
May 2022

BSc of Computer Science (University Of Brighton)

First Class with honors. Thesis: The Arduino Synthesiser.

Skills

Languages

Python, Javascript, React, C++, Embedded C, SQL, .Net(Online course)

DL Libraries

Juce, Tone Arduino Library

Useful Tools

Juce Test Host, FL Studio, Plugin Doctor, Ableton, VS Code

Hardware

Arduino, Soldering, Midi Keyboard, Serial Communication

Hobbies

Music Production, Cooking, Football

Speaking Languages

Arabic (Native), English (Native)