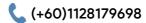
Fatima Tayeb



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Education

B.Sc. (Hons) in Computer Science, University of Nottingham, Selangor, Malaysia

Autumn 2016 -

Spring 2020

Award [Predicted]: First Class.

Relevant Courses: Programing Paradigms, Algorithms Correctness & Efficiency, Databases & Interfaces, Languages & Computations, Fundamentals of Artificial Intelligence, Compilers, Machine Learning, Artificial Intelligence Methods, Image Processing, Computer Vision, Operating Systems & Concurrency, Software Quality Assurance

- Attained Dean's Excellence Award twice for showcasing excellent academic performance and being in the top 10% in a batch of over 75 students.
- Elected as a Representative for over 315 students in the School of Computer Science for 2 consecutive years and working closely in the Student Council and Education Network to enhance the students' learning experience.
- Co-led a weekly Computer Science Reading Group to engage lecturers & students in discussing academic research.

B.S Computer Science, Carnegie Mellon University, Doha, Qatar.

Fall 2015

Relevant Courses: Fundamentals of Programming and Computer Science, Freshman Immigration Course, Differential & Integral Calculus, Concepts in Mathematics, Reading & Writing in Academic Context

Active member of The Planetary Society helped organize the Tartan Carnival 2015 that brings together students, faculty, alumni and staff for an evening of fun, games and prize.

Technical Skills-

Proficient: C, Python, Java, HTML, CSS, MATLAB Familiar: Javascript, Haskell, C#, .NET, C++, Windows Powershell, Unix

Experience-

Data Analytics Intern

May 2020 - July 2020

Qatar Computing Research Institute, Doha, Qatar

Selected as part of QCRI's Summer Internship program to work on "A Diagnostic Decision Support System which Can Predict Diagnostic Markers"

Research Intern

June 2019 - September 2019

University of Nottingham, Selangor, Malaysia

- Implemented and tested a novel algorithm for "Automatic Skull Region Grouping & Selection for Sex Identification "on MATLAB.
- Integrated various dimensionality reduction techniques (ISOMAP, LLE, PCA) to optimize performance of the algorithm.
- Experimented with converting MATLAB scripts to Python to leverage Python's powerful extensive standard libraries.

Technical Consultant Intern.

June 2018 - September 2018

AGTIV Consulting Sdn. Bhd , Kuala Lumpur , Malaysia

- Implemented SharePoint-based workflows and developed Business Intelligence dashboards.
- Applied current graphics design and .NET technologies to develop, modify, maintain SharePoint server portals.
- Built custom web parts, event handlers, features, site definitions, package solutions and applications that interface with other enterprise applications.
- Formulated User Acceptance Test scripts (UAT) and ensured the system functionality is fully tested within project timescales and to a high quality.
- Executed data migration in coordination with management and technical services personnel.
- Technologies used: ASP.NET / MVC / C#/.NET /XML / jQuery / REST / SQL /Node JS / JSON / Microsoft36

Projects——			
1 TOJCCIS			

Feature selection of microarray gene expression for detection of colon cancer

October 2019 - Ongoing

Undergraduate Dissertation, Supervisor: Dr. Siew Chin Neoh

Investigated existing feature selection methods and developing an intelligent feature selection method to optimize
classification accuracy on colon cancer detection through implementing a hybrid filter-wrapper approach with Binary Spider
Monkey Optimization and RelieF. Technology used: MATLAB/Bioinformatics Toolbox

Emotion Tracking System

December 2019

• Implemented and tested the application of different Machine Learning techniques (Artificial Neural Networks (ANNs),
Decision Trees (DT) and Support Vector Machine (SVM)) for binary classification of smile/no smile expressions, multi-class
classification of six universal basic facial expressions), and regression of the yaw-component of head-pose estimation.
Technology used: MATLAB / Neural Networks toolbox /iCCR

Improving the Optimization of Neural Diversity Machines

May 2019

• Enhanced the performance of the Neural Diversity Machine by employing different strategies such as integrating point based search heuristics with population based search algorithms (Memetic Algorithms), parameter control mechanisms and population mechanics. Technology used: MATLAB / Statistics and Machine Learning Toolbox

CropTEXT April 2019

Crops Informational retrieval & crawling web application designed to enhance research efforts at "Crops For Future
Research Center Sdn. Bhd." for underutilized crops. Technologies used: Python / Anaconda / Jupyter / Scrapy / MongoDB /
Google Cloud Platform / linux /flask /nltk/TF-ID

Extracurriculars —

Coding Instructor

re.code

Developed and co-designed a refugee-focused Web development bootcamp. Conducted weekend web-development bootcamps to over 40 students (adults and children) covering basics of HTML, CSS, JavaScript and Interactive Programming (Scratch).

Public Speaking Coach

Present2Represent

• Co-led a Nottingham Advantage Award module impacting more than 150+ students in total. Coached over 80 students on effective presentation skills and adequate public speaking skills.

Event Organizer

Islamic Society at the University of Nottingham , Malaysia.

 Managed operational and administrative functions to ensure club events run successfully as well as coordinating and delegating tasks to the rest of the team. Events organized include: Interfaith Dialogue, Spirituality & Self-Awareness, Charity Week.

Awards & Honors -

Dean's Excellence Scholarship 17/18 and 18/19

Awarded for being a top achiever in the School of Computer Science at The University of Nottingham, Malaysia.

Google Anita Borg Memorial Scholarship APAC 2018

 Chosen as one of 72 scholars out of over 250,000 applicants for showcasing impact on diversity, demonstrating technical skills, leadership and academic accomplishments

Nottingham Inspirational Woman Award 2018/2019

• Nominated as one of 32 women in the Malaysian campus for inspirational contribution to the University.