

# Fatima Tayeb



fatimatayeb.com



fatimataayeb@gmail.com



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(+60)1128179698

## Education

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

Expected Date of Graduation: July 2020

Award [Predicted]: First Class,

**Relevant Courses:** Programing Paradigms, Software Engineering, Algorithms Correctness & Efficiency, Databases & Interfaces, Languages & Computations, Compilers, Operating Systems & Concurrency.

- Attained Dean's Excellence Award twice for showcasing excellent academic performance and being in the top 1% in a batch of over 75 students.
- Elected as a Representative for over 250 students in the School of Computer Science for 2 consecutive years.
- Co-led a weekly Computer Science Reading Group to engage lecturers & students in discussing academic research papers.

## Technical Skills

**Proficient:** C, Python, Java, HTML, CSS, MATLAB **Familiar:** Javascript, Haskell, C#, .NET, Go, C++

## Experience

### Research Intern

June 2019 - September 2019

University of Nottingham - 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 Intern

June 2018 - September 2018

AGTIV Consulting Sdn. Bhd

- 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
- Technologies used: ASP.NET / MVC / C# / .NET / XML / jQuery / REST / SQL / Node JS / JSON / Visual Studio

## Projects

### CropTEXT

May 2019

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

### Expr-Fixer

April 2018

- Mathematical expression converter written in C that transforms expressions to polish notation or reverse-polish notation based on user's preference. Employed multiple techniques including: Pointers, File I/O and String Handling.

### DH -Map Viewer

December 2018

- Application created with JavaFX that allows users to change location of items in the famous Java-written Diamond Hunter game map.

## Extracurriculars

### Coding Instructor

re.code

- Developed and designed a refugee-focused Web development bootcamp. Conducted weekend web-development boot camps to over 40 students covering basics of HTML, CSS and JS.

### Event Organizer

Islamic Society

- 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.

### 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.

### Lead Tutor

Malaysian Social Research Institute (Sahabat Support Center for Refugees)

- Actively tutoring over 80 refugee kids at the center and teaching them English and Math. Acting as Head Volunteer and responsible of recruiting volunteers and preparing learning materials

## Awards

### Google Anita Borg Memorial Scholarship (Women Techmakers) 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.