

Mariam Sarfraz

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EDUCATION:

MEng Electrical and Electronic Engineering with Management (2015-2019)

Imperial College London, United Kingdom

Key year modules: Mathematics, Statistics, Algorithms and Data Structures, Computer Architecture, Computational Complexity, Machine Learning, Digital Electronics, Analysis of Circuits, Signals and Communications Systems, Communication Networks.

Aggregate Grade: 2:1

A Level (2015)

Cambridge International Examination

Mathematics A*, Physics A*, Chemistry A*.

IGCSE O Level (2013)

Cambridge International Examination

5A*s, 3A's

PROFESSIONAL EXPERIENCE:

Barclays – London, UK

***Off-cycle Data Science Intern, Advanced Analytics & Monetization Team* April – September 2017**

- Working with a range of innovative, leading edge data technologies and methodologies and works in collaboration with internal clients to deliver time-bound, impactful proof of concept data solutions

***Summer Technology Analyst, Transactions Database Team* June – August 2017**

- Developed an indepth understanding of the current Transaction Database System Flow
- Created the Transactions Database Flow Diagram, using Microsoft Visio Professional, and presented it to the global team
- Created External Tables and compared various file extracts using Oracle SQL
- Initiated use of Data Validation Tool for running tests on file extracts and checking data integrity/quality
- Assisted the business analyst with data analysis tasks

PwC – London, UK

April 2017

Women in Technology Programme

- Gained insight on how Data Assurance, Cyber Security and Digital Trust operate in PwC by work shadowing and networking with numerous people from different areas of technology
- Alongside Technology, learned about how PwC as a firm and business operates

Morgan Stanley – London, UK

March 2017

Spring Insight Programme

- Gained insight into various technology divisions of Morgan Stanley, i.e. Institutional Securities Technology, Enterprise Infrastructure and Prime Brokerage, Funding & Finance Technology by work-shadowing junior and senior level professionals in the above mentioned divisions
- Developed communication and team working skills through networking events and technical related project

Orascom Telecom (Mobilink) – Lahore, Pakistan

July – Sept 2016

Summer Intern

- Assistance in monitoring the down sites and low voltage sites in Lahore
- Compilation of hourly reports after extracting information from the U2000 software for informing the site leaders about their respective site problems
- Site visits to gain a deeper understanding of the GSM networks and Optical Fiber/Microwave transmission

EXTRA-CURRICULAR AND VOLUNTARY WORK:

President and former Events Officer, Imperial College Union Electronic Engineering Society (2017+)

- Organizing various events for a society holding 1000+ members such as the New Years Dinner, bar nights, pub crawls, ice skating and bubble football
- Acting as an active member of the committee and helping my peers organize industry talks and national/international trips as well

3rd Year EEE Wellbeing Officer, Imperial College Union (2017 – Present)

- Act as an active member of the student representative network of the department
- Gather feedback from my year's students regarding their wellbeing & happiness and take necessary steps for improvement
- Act as a bridge between the staff and student body regarding wellbeing matters

President of the Mathematics Society, Lahore Grammar School 55 Main (2014 – 2015)

- Alongside my team, excelled in several national and international Mathematics and Science Olympiads
- Organized weekly tutorials to tutor O and A level students of the school and help them with their problems
- Planned and executed one of the biggest Science Olympiads in Pakistan alongside my peers

Other activities:

- Working as EEE Departmental tour guide, Imperial College, for the past two years.
- Representing the college on various events and talks as a President's Ambassador; 2017 onwards
- Served as the captain of the CJM's Basketball, Netball and Baseball team for three consecutive years
- Awarded "Athlete of the Year" in 2013 and 2015
- Shortlisted for Pakistan's National Throw-ball team in 2014
- Lead Role in two annual school plays in 2012 and 2014
- One of the 14 ambassadors chosen to represent Pakistan in the Saray Tekirdag Cultural Festival 2014

SKILLS/LANGUAGES:

Computer Skills: Microsoft Word, Power point, Excel, Visio, C++, Python/ Micropython, ARM Assembly Language, MATLAB, Verilog HDL, Oracle SQL

Languages: Urdu (mother tongue); English (fluent); Hindi (professional proficiency)