

## Mariam Sarfraz

**Address:** 210 Pierpoint Building, 16 Westferry Road, London. E14 8NQ  
**Mobile:** +44-7746-775519 **E-mail Address:** [mariam.sarfraz15@ic.ac.uk](mailto:mariam.sarfraz15@ic.ac.uk)

### EDUCATION:

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#### **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:** 1st

#### **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:

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#### **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:**

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### **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

### **3<sup>rd</sup> 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:**

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**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)