Wendy Gao-Yin

London, United Kingdom

+44 7887383587 wendy.gao@live.co.uk

EDUCATION

Imperial College London **2019-2023**

MEng Electronic and Information Engineering

- Second Year: 72.77%, First Year: 80.22%, Deans List Award, First Class Honours
- Notable Modules: Mathematics, Computer Architecture & Compilers, Programming for Engineers, Analysis and Design of Circuits, Information Processing, Software Systems

Altrincham Grammar School for Girls **2012-2019**

- **A Levels:** 5A*s in Maths, Further Maths, Physics, Computer Science, EPQ
- **GCSES:** 3 grade 9s, 6 A*s, 1A including English and Maths

EXPERIENCE

Google, STEP Intern, Paris **Jul 2021-Sep 2021**

- Part of the YouTube Team working on infrastructure using C++ and MapReduce to create microservices and pipelined jobs, as well as creating a debugging dashboard using HTML, CSS and JavaScript.

Jane Street Insight, Participant, Remote **Apr 2021-Apr 2021**

- Produced a snake game using OCaml. Used Python and socket programming to build a bot with trading strategies (liquidity difference, penny pinching) to compete in a virtual market, attaining 3rd place

Macquarie, Spring Intern, Remote **Apr 2021-Apr 2021**

- Introduced to investment banking, corporate infrastructure, and global finance, particularly in the green market. Participated in trading games and upskilling sessions, and networked with professionals

Dell, STEM Aspire Mentee, London **Nov 2020- Jun 2021**

- Selected for mentorship and helped create a tailored curriculum to build transferable skills in tech roles

Aidaro, Full Stack Software Intern, Remote **Jul 2020-Oct 2020**

- Scraped the web and built APIs around points of interest to provide informed property recommendations using Python and AWS. Created an automated ETL pipeline to periodically clean and categorize scraped data.

PROJECTS

- **Sudden Activity Monitor:** Created a network of FPGAs and computers using IoT and AWS to monitor movement using accelerometers. Processed data locally using hardware and software based on key metrics.
- **C++ Circuit Simulator:** Lead the design and implementation of a circuit simulator to perform time varying analysis, using numerical methods to model circuitry
- **AIHACK 2020 Compressor Analytics:** Analysed multivariate time series data. Cleaned dataset and applied anomaly detection before using unsupervised learning to create a predictive model for faults
- **Visitor Management System:** Created a visitor sign in software package as part of a school wide competition using Python and Excel. Obtained first place, resulting in integration and deployment in office

VOLUNTEERING AND LEADERSHIP

Imperial College London Engineering Change **Oct 2019-Present**

- **Treasurer:** Responsible for cash flow and liaising with over 200 members of the society regularly. Created promotional materials for Freshers fair and ad-hoc events, increasing membership by 70%
- **App Developer:** Selected as part of a computer vision team to lay the groundwork for a plant disease detection app. Used Android Studio to prototype camera features and explored machine learning models

SKILLS AND INTERESTS

- **Technologies:** Python, C++, SQL, HTML, CSS, JavaScript, Git, Linux, Docker, AWS (S3, EC2, Lambda)
- **Interests:** Piano, Cello, Ukulele, Recorder, Cricket, Stop-Motion

ACHIEVEMENTS

- **Maurice Hancock Scholarship** awarded for excellence in A levels
- **BEBRAS Elite 2018**: Distinction
- **ARSM Piano Diploma**: Distinction