

## EDUCATION

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### UNIVERSITY OF SUSSEX

#### **Master of Mathematics (MMath): Integrated Bachelors with Masters (4 years)**

Brighton, Sussex, England  
Sep 2017 – Aug 2021

- *Expected* : 1<sup>st</sup> class
- *Modules include*: Probability and Statistics, Complex Analysis, Probability Models, Random Processes, Statistical Models, Financial mathematics, C++, Python, Portfolio Analysis, Math Models in Finance and Monte Carlo simulations
- *Activities*: Member of American Football team

### HARRIS WESTMINSTER

#### A-Levels

Westminster, London, England  
Sep 2015 – Sep 2017

- *Academics*: Mathematics A\*, Further Mathematics A, Physics B, Chemistry B
- *Activities*: Member of Mathematics and Physics club

### THE PALMER CATHOLIC ACADEMY

#### GCSE

Seven Kings, London, England  
Sep 2010 – Sep 2015

- *Academics*: 4A\* 7A 1B including Mathematics A\* and English Language B
- *Activities*: UKMT Maths Challenge (bronze, silver then gold)

## RELEVANT EXPERIENCE

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### RESOLVE SECURITY

#### *Door Supervisor*

Brighton, Sussex, England  
Mar 2019 -- Dec 2019

- Developed interpersonal skills by interacting with a variety of customers in a 2500 capacity venue.
- Furthered ability to work in a team by liaising with all 25 team members to minimize incidents.
- Improved communication skills by diffusing many volatile situations verbally.
- Learned to make quick decisions and work under pressure by dealing with situations requiring split second reactions.

### FACEAPP

#### *Fundraiser*

Sussex, England  
Jul 2018 – Aug 2018

- Boosted sales confidence by setting a company regional record of 7 sales in a single day.
- Developed teamwork ability by supporting my team of 3-5 through sales when needed.

## LEADERSHIP EXPERIENCE AND PROJECTS

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### NIGHTCLUB MEMBERSHIP

#### *Project Leader*

Brighton, Sussex, England  
Jul 2019 – Sep 2019

- Gained research skills by conducting primary market research with 100+ potential customers
- Developed public speaking and presentation skills by pitching and presenting ideas and improvements to club management.
- Advanced leadership skills by managing a small promotion team of 2.

## ADDITIONAL INFORMATION & INTERESTS

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- *Computer Skills*: Microsoft (Office, Excel, PowerPoint), Git/Github, Jupyter Notebooks
- *Coding Languages*: C++, Python, HTML, CSS, Octave, SQL , MATLAB, SAS, JavaScript
- *Python Libraries*: Django, Tkinter, Pandas, Numpy, Matplotlib,
- *Machine Learning*: Linear & Logistic Regression, Neural Networks, Support Vector Machines, K-Means, PCA and
- *Anomaly detection*
- Experience using Quantopian pipeline for data analysis (for personal research project)
- *Languages*: English (Native) , Hindi (Native) , Punjabi (Native)
- *Workshops/Courses*: Full Stack Web Development with Django on Udemy, Stanford Machine Learning on Coursera
- *Interests*: Bodybuilding (competed in bodybuilding at it national level), Powerlifting (535kg Total at 95kg), Tech (follow all new phones, computers etc. + built my own computer) , Deep Learning (working through a deep learning course now), Mountain Biking (love biking through the South Downs)