

# Siddartha Nath

3<sup>rd</sup> Year Mathematics Undergraduate

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## Education:

- Sept 2018 – June 2021 (Expected) **Imperial College London (South Kensington, London)**  
**BSc Mathematics with Statistics:** Predicted First-Class Honours (Cumulative Grade: 72.35%)  
Modules Overview: Statistics, Mechanics, Pure (Real/Complex/Numerical Analysis), Algebra, Calculus, Mathematical Computation (Python/MATLAB/R/LaTeX)
- Sept 2010 – June 2017 **Tiffin School (Kingston-Upon-Thames, London)**  
**A-Levels:** Mathematics (A\* - 98%), Further Mathematics (A\* - 93%), Chemistry (A) and Economics (A)  
**AS-Level:** Biology (A)  
**GCSEs:** 12A\* (including English Language, Mathematics, Biology, Physics, Chemistry etc...)

## Professional Experience:

- Aug. 2019 – Present **Oxford International College – Academic Mentor** Cowley, Oxford
- Taught and conducted university admission tests (STEP, MAT, TMUA and CSAT) and ran group master classes for students on abstract Mathematics (combinatorics/logic).
  - Provided mock interview practice scenarios and one-to-one personal statement sessions which vastly improved my communication skills.
  - Held an Introductory Computer Science seminar (in Python) to upcoming CS students – this involved a brief overview of: Statements | Loops | Time/Space Complexity | Data Structures/Algorithms.
- Jun. 2020 – Aug. 2020 **1fs Wealth – Data Analyst** Marylebone, London
- Partnered with the CFO, to reproduce Discounted Cash Flow/Valuation Multiples models via Excel and MATLAB to re-evaluate company revenue projections and start-up value.
  - Conducted data collection and valuations for over 50 assets (using RPI values) for 1fs platform database.
  - Collaborated in a group of 3 to produce an onboarding manual, operations manual and competitor analysis database via LaTeX, which enhanced my teamwork and typesetting documentation skills.
- Sep. 2017 – Feb. 2018 **MJ Hudson – Research Analyst** Bank, London
- Created and navigated over 5 presentations used by our Managing Director - in particular, a prestige panel event, which focused on future tech innovation, cryptocurrency and their involvement across all sectors.
  - Researched and analysed company competition in order to evaluate their performances and market trends.
  - Displayed an ability to work fast by tabulating invoice registering for Senior Associate, in a short deadline.
  - Networked with new companies and gained insight into how impact investors can align their investment strategies to the SDG, which strengthened my confidence and communication skills.

## Certifications:

- Goldman Sachs Machine Learning
- 1-Day online engineering virtual experience revolved about Tech Risk (focusing on cryptography, hashing algorithms and password databases/regulation policies).
  - 11-week online course providing a broad overview of: Supervised Learning (parametric/non-parametric algorithms, support vector machines, kernels and neural networks) | Unsupervised learning (clustering, dimensionality reduction, recommender systems and deep learning) | Best practices in machine learning
  - ⇒ Projects: Linear Regression Modelling to calculate house prices | Neural Network modelling for Handwritten Digit Verification | Optimization via Support Vector Machines to create spam classifiers.
- Complete Investment Banking
- 4-week online course providing a broad overview of: Capital Markets | Advisory | Trading and Brokerage | Asset Management | Financial Accounting.
  - ⇒ Project: At the internship at 1fs Wealth; carried out calculations of the company's start-up value and 6-year revenue projection (to which a brief time-series analysis was conducted to establish future predictions).
- UK Bright Network Consulting
- 3-Day Online Virtual Internship providing a brief overview of: Life as a Consultant | Innovation in consulting
  - ⇒ Project: Delivered a 1-to-1 online presentation about a potential implementation of a "Loyalty Programme" for a declining chocolate branded company.

## Skills & Interests:

- Programming Analytical Additional
- Python (Data Structures/Algorithms/Object-Oriented) | MATLAB | R | LaTeX
  - Statistical (Hypothesis Test/Regression Modelling) | Data Analysis with Python (Matplotlib, SciPy, NumPy)
  - Data Science (Machine/Deep Learning) | MS Office | Multi-lingual (English/Bengali/Hindi)
- Interests
- Dance (Bollywood/Hip-Hop) | Music (Singing/Beatboxing) | E-Sports Gaming | Fitness