Shyam Iyer   **190040116**
Engineering Physics   **B.Tech.**
Indian Institute of Technology Bombay   **Gender: Male**
                                                          DOB: 10/18/2001

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2023	8.74

Pursuing a **Minor** in **Computer Science & Engineering**

PROFESSIONAL EXPERIENCE

Barclays Corporate and Investment Bank | Intern Analyst   May '22 - Jul '22
Part of the Electronic Trading Desk in Mumbai analysing trade data for US Equities Markets
- Experimentally demonstrated significant **price improvement** as a result of a novel liquidity discovery algorithm
  - Employed statistical functions of the **SciPy** package as well as Numpy and Pandas on **Python**
- Augmented internal reports with **30+** trend visualisations for improved client profiling on the LX Darkpool
  - Utilised **PySpark** and **SQL** on Hadoop clusters to aggregate billions of rows of trade data into useful trends

QuHu | Backend Software Intern   Jul '21 - Apr '22
Worked in a 30-member team of individuals launching India's first unique social audio platform
- Developed the backend **REST API** infrastructure using **Spring Java** for an Android application frontend
- Incorporated an **end-to-end** user and post **management service** for blocking and reporting content
- Managed the MongoDB and SQL **Databases on AWS** and completed a migration project to **Amazon RDS**

LEADERSHIP AND ORGANISATIONAL EXPERIENCE

Institute Literary Arts Secretary | Institute Cultural Council, IIT Bombay   Apr '21 - May '22
Led a 7-member council as an elected representative of 10,000 students, organising 30+ events annually
- Spearheaded the conduction of **9 events** under IIT Bombay's **Literarium** with a budget of **0.7 Lakh** consisting of a **General Quiz**, writing competitions, workshops and talks by **acclaimed writers**
- Expanded the Inter Institute Scrabble League to **8 IITs**, acted as **Overall Coordinator** heading a team of 16 for the second annual inter-collegiate edition which saw a participation of **120 students** across **168 matches**
- Strengthened quizzing culture with Summer League and Winter League campaigns; achieving **250% increase** in page visits and **900% increase** in participation through consistent activity and a point-based leaderboard system

Literary Arts Convener | Institute Cultural Council, IIT Bombay   May '20 - Apr' 21
Part of a 6-member council responsible for organising Literary Arts events for a 10,000 strong student community
- Created content for **70+** online campaigns during lockdown increasing the club's social media presence **12 fold**
- Coordinated **15 events** under the flagship Battle of the Batches clocking **12+ hours** with **200+ participants**

KEY PROJECTS

Game Theory | Summer of Science   Apr '20 - Jun '20
Self learning project mentored by an experienced senior under the Maths and Physics Club of IIT Bombay
- Learned key concepts of Game Theory and applications in decision making via ECON 159 offered by **Yale University**
- Documented my learnings in a **10,000** word report and analysed a **case study** on Discussion in Game Theory

Soaring Stocks in the Indian Market | Quantify Capital   Oct '19
*Two-day long workshop on technical analysis by a skilled trader | Won **Best Report***
- Learned crucial concepts of **technical trading** such as trend analysis, moving averages, RSI and ADX indicators
- Analysed charts of **30+ Indian stocks** and prepared a report studying two favourable market sectors at the time

TECHNICAL STRENGTHS

Languages & Tools	C++, Python, Java, JavaScript, MATLAB, Bash, PySpark, AWS, SQL, MongoDB
Software/Platforms	LaTeX, Git, Docker, ROS, Solidworks, AutoCAD, Premiere Pro

EXTRACURRICULAR ACTIVITIES

Quizzing	• Stood **3rd place** at the **National Finals** of **Aqua Regia 2015** Science Quiz • Represented IIT Bombay at the **Inter IIT-IIM** quizzing event Nihilanth in 2022
Culturals	• Performed in a group hip-hop show at Salsa Night 2019 for a crowd of **500+** attendees • Played the Acoustic and Bass **Guitar** at multiple school competitions over three years
Community Outreach	• Raised funds for the Terry Fox Foundation for **cancer research** at the Tata Memorial Hospital and participated in the Terry Fox Run for Cancer in 2014, 2015 and 2016