

Jeet Thakwani

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Education

University College London (UCL), BSc Computer Science

London, UK

Modules including: Discrete Mathematics, Algorithms, Theory Of Computation,

2024 – 2027

Year 1 Grade: First Class (average 78%)

Vibgyor High, A Levels

Vadodara, India

A*A*A*A in Physics, Chemistry, Further Mathematics, and Mathematics

2022 – 2024

Technical Experience

Jane Street FTTP, Spring Week

London, UK

Spring Week Participant

April 2025

- Selected to participate in Jane Street's FTTP, a one-week program focused on trading fundamentals, market making, and quantitative problem solving.
- Achieved a **5x return** by arbitraging commodities in a fast paced trading floor simulation, applying expected value calculations to manage risk.

Loby, A Roommate Matching App

London, UK

Software Engineering Intern

Nov 2024 – Feb 2025

- Designed and trained an XGBoost model that predicts roommate compatibility; delivered 99% accuracy across precision, recall and F1 on 10k historical matches.
- Wrote over 50 unit and integration tests for Flask APIs and shipped multiple production bug-fixes (authentication edge cases, off by one fixes, SQLAlchemy ORM query bugs)

Skills: C++, Python, CUDA, Flask, XGBoost, NumPy/Pandas, ML, Probability

Awards and Achievements

- Represented Ghana at the **International Mathematical Olympiad (IMO)** 2023.
- **Ranked 1st** at the Ghanaian National Math Olympiad (MISE Solve-A-Thon) for **three consecutive years**.
- **Honourable Mention** and **First Runner-up Team** at the South African and Indonesian International Math Competitions **for three consecutive years**.
- Achieved **Distinction** and ranked **3rd** in India for Euclid Mathematics and Canadian Computing Contest.

Projects

- **CUDA MCTS Autoplayer:** Accelerated a Monte-Carlo-Tree-Search autoplayer for 3-D Connect-4, achieving a **20x** simulation-throughput speed-up over the single-threaded CPU.
- **SourceTracer AI - ICHack:** Built a **Flask web app** that lets users enter a topic, pick an article, then recursively prompts an LLM API to surface and rank prior sources (depth 3), streaming live progress to the UI.
- **Time-Based Image Encryption:** Built a time-lock encryption algorithm that enforces fixed decryption times and prevents parallel speedup.

Leadership & Teaching

Lead Department Representative, Computer Science

London, UK

University College London

Sep 2023 – Present

- Overhauled Discrete Mathematics module that faced issues for four years and initiated change of exam board policy for a year 2 module due to yearly grade deflation.
- Represented over 700 CS Undergrads, chaired Student-Staff Partnership Committee, aggregated cohort feedback, and negotiated solutions directly with programme leads and the Head of Department.

Mathematical Olympiad Teacher

Accra, Ghana

MISE

Feb 2023 – Mar 2023

- Mentored Ghana Junior Math Olympiad finalists in advanced problem-solving techniques.
- Taught Algebra, Geometry, Number Theory, and Combinatorics for 8 hours daily.