

# Jeet Thakwani

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## Education

### University College London (UCL), BSc Computer Science

Relevant modules: Discrete Mathematics, Algorithms, Theory Of Computation,  
Object-Oriented Programming, Programming in C and Haskell

London, UK

2024 – 2027

### Vibgyor High, A Levels

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

Self-studied Further Maths as a Private Candidate in 1 month, earning an A\*.

SAT: 1540 (Math: 800, English: 740)

Vadodara, India

2022 – 2024

## 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 Int'l Math Competitions for **three consecutive years**.
- Achieved **Distinction** and ranked **3rd** in India for Euclid Mathematics Contest (2022, 2023).
- Achieved **Distinction** and ranked **3rd** in India for Canadian Computing Contest (2023).

## Technical Experience

### Loby, A Roommate Matching App

Software Engineering Intern

London, UK

Nov 2023 – Present

- Deployed a **rules-based engine** for matching, boosting matches/likes by **200%**.
- Developed and trained an **XGBoost model**, designed to replace the rules-based engine, achieving 99% performance across all key metrics.
- Created comprehensive **Flask API tests**, enhancing reliability while using **GitHub versioning** and **Jira** within an **AGILE workflow**.

### TLUPS - Mathematical Association of America

Research Intern

International

Sep 2023 – Feb 2024

- Developed an **evaluation function** for a Genetic Algorithm in AI-driven team selection for a research proposal.
- Authored AMC 12-level math contest papers deployed in schools worldwide.

## Leadership & Teaching

### Lead Department Representative, Computer Science

University College London

London, UK

Sep 2023 – Present

- Overhauled the Discrete Mathematics module, resolving four years of ongoing issues.
- Facilitated feedback between staff and peers to address concerns transparently.

### MISE

Mathematical Olympiad Teacher

Accra, Ghana

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.

## Projects

### Connect 4 - 3D with AI

- Built a 3D Connect 4 game in Unity in just 3 days, learning **C#** and camera control with Quaternions.
- Designed and implemented a **Minimax AI** optimized with a Genetic Algorithm, achieving a **99%** win rate against an AI bot sourced from GitHub.