

# Ethan D'Souza



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ethandsz

## Certifications

### MSc Robotics & Artificial Intelligence

UCL (University College London)  
London, United Kingdom

### BSc (Hons) Artificial Intelligence

Anglia Ruskin University  
First Class Honours  
Cambridge, United Kingdom

### Data Analysis with Python: Zero to Pandas

[Jovian.ai](#)

Online Certification

### Machine Learning with Python: Zero to GBMs

[Jovian.ai](#)

Online Certification

### Machine Learning Onramp

MATLAB Online Certification

### Deep Learning Onramp

MATLAB Online Certification

### Signal Processing Onramp

MATLAB Online Certification

### Image Processing Onramp

MATLAB Online Certification

## Experience

Since 2025 **UCL Aerial Research Intern**

**About:** Developing and integrating SLAM algorithms on an X500 drone, using an onboard Jetson Nano for processing.

- Independently testing and implementing different SLAM frameworks and pointcloud processing via a Livox MID-360.
- Designing, building and documenting the entire process from software setup to hardware integration to mounting the stack on board.

2022 - 2025 **Blackdot Solutions - Software Developer**

[Blackdot Solutions](#)

**About:** Fullstack developer working on data integration codebase and web application development at Blackdot Solutions

- Implemented Github actions to run automated tests as part of a continuous integration build pipeline which is still used today
- Delivered presentations and demos during sprint review meetings, addressing the entire company
- Integrated APIs into the software requested by clients such as HSBC, Deutsche Bank, Government of the United Kingdom, etc..

2021-2022 **Openspace - Mobile App Developer**

[GitHub](#)

**About:** Developed a geo-location based mobile game

- Used Flutter and Dart to incorporate both major operating systems(Android and IOS)
- Used Google Cloud Platform to incorporate Google Map APIs
- Communicated in corporate environments

2019 - 2020 **Code Ninjas - Educational Tutor**

[Code Ninjas © 2022](#)

**About:** Supported students for academic progress in programming

- Assessed students' level of progress within a subject and identifying areas for improvement
- Communicated with parents or guardians about trouble areas or any issues that required attention
- Kept up-to-date on the current curriculum and the latest teaching trends

## Projects

Apr 2025 **Laplacian Based Drone Swarm**

**About:** Developed a decentralized drone swarm control system based on a complex Laplacian method from academic research; implemented and tested the system on three Crazyflie drones in the Aerial Research Lab, successfully navigating a field of poles as part of a school project.

Dec. 2024 **Neuphonic X Google AI Hackathon**

[Neuphonic](#)

**About:** 1st place winner at a Neuphonic-hosted hackathon, where my team developed an object detector integrated with their AI-powered, ultra-low-latency text-to-speech API to assist individuals with visual disabilities.