

# Yusif (Joseph) Mehdiyev

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 JosephMehdiyev  Yusif Mehdiyev

Glasgow, United Kingdom, Student Visa  
Eligible to work in UK

## EDUCATION

### • University of Glasgow

*BSc in Mathematics(FR)*

2025 - 2028

Glasgow, United Kingdom

- Azerbaijan's Full Ride State Scholarship Recipient
- GPA: 21/22
- Full List of Coursework and Self Study [in this link](#)

### • ADA University

*BSc in Mathematics*

2024 - 2025

Baku, Azerbaijan

- Major GPA: 4.0/4.0

- Rector's List of Honor

- Lotfi A. Zadeh List of Honor

- IELTS: 7.5 (8.5/8.5/6.5/6)

### • Complete Secondary School Number 12

*General Secondary Education*

2013 - 2024

Baku, Azerbaijan

## EXPERIENCE

### • Teaching Assistant in ADA university

February 2025 - May 2025

Baku, Azerbaijan

*Teaching Assistant in Linear Algebra*

- Assisted with grading homework or exams, proctoring exams, tutoring, offering office hour assistance to students, and performing clerical tasks associated with course instruction.

## PROJECTS

### • Corman: 3D Physics engine from scratch.

March 2024 - June



*Tools: C++, Cmake, OpenGL, GLFW, ImGui, GLSL shaders*

- Developed a backend with OpenGL to render meshes of primitive shapes with OOP.

- Used Linear Algebra Transformations, Mathematical and Physical algorithms to simulate Rigid Elementary Particles with Collisions.

### • Numerical Methods library written scratch in C++.

November 2025 - Ongoing



*Tools: C++, Python, Cmake*

- Developing a numerical methods library implementing algorithms for solving linear systems, interpolation and extrapolation, root-finding, eigenvalue and eigenvector computation, optimization, numerical differentiation, and numerical integration.

- Building Python scripts to automatically generate performance and accuracy visualizations to compare implemented algorithms.

### • Azerbaijan's Real Estate market scraper and analyzer

November 2025 - Ongoing



*Tools: Python, PostgreSQL*

- Scraped data about real estate market of Azerbaijan over the popular internet websites and built a PostgreSQL table.

- Filtering, organizing and analyzing data to find out more about the Real Estate Market of Azerbaijan.

## SKILLS

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- **Programming Languages:** C, C++, Python, R, Lua
- **Libraries:** Numpy, Scipy, Pandas, Matplotlib, Seaborn
- **Database Systems:** PostgreSQL
- **DevOps & Version Control:** Git, Cmake, Docker
- **Other Tools & Technologies:** Latex, Linux (arch and debian based), Microsoft Office, Vim/Neovim, OpenGL, Tableau, JupyterLab
- **Language Knowledge:** Azerbaijani (Native), Turkish (C1), English (C1; IELTS 7.5), French (B1)

## CONTESTS, AWARDS AND OTHER ACTIVITIES

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### • Azerbaijan Olympiads Forum Maintainer

April 2022 - September 2022

*Art of Problem Solving Forum*



- Archived Azerbaijan Olympiad TSTST, TST and other problems for various national and international olympiads such as Azerbaijan Senior National Olympiad, Juniors' and Seniors' Balkan Mathematical Olympiad and International Mathematics Olympiad.

### • Azerbaijan Juniors' Mathematics Camp Participant

September 2021 - June 2022

*Azerbaijan Olympiad camp for training individuals for famous mathematical olympiads such as IMO, BMO, and JBMO*

- Collaborated with peers to solve challenging mathematical problems
- Participated in intensive training sessions, improving problem-solving strategies and critical thinking abilities

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### • Azerbaijan Mathematics Team Selection Tests Participant

September 2021 - June 2022

*Azerbaijan TST for famous mathematical olympiads such as IMO, BMO, and JBMO*

- Participated in TST of Azerbaijani team