

# Yusif Mehdiyev

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 [JosephMehdiyev](#)  [Yusif Mehdiyev](#)

Glasgow, United Kingdom

Azerbaijani citizen

## EDUCATION

### • University of Glasgow

BSc in Mathematics (and Statistics)

2025 - 2028

Glasgow, United Kingdom

- Recipient of Azerbaijan's full-ride state scholarship
- GPA: 21/22
- Full list of coursework and self-study available at: [in this link](#)

### • ADA University

BSc in Mathematics

2024 - 2025

Baku, Azerbaijan

- GPA: 3.96/4.00
- Rector's list of honor
- Lotfi A. Zadeh list of honor

## EXPERIENCE

### • Teaching Assistant at ADA university

Teaching Assistant in Linear Algebra

February 2025 - May 2025

Baku, Azerbaijan

- Assisted with grading homework and exams, proctoring exams, tutoring students, helping office hours, and performing clerical tasks related to course instruction.

## SELECTED PROJECTS

### • Numerical methods library written from scratch in C++.

January 2025 - Ongoing

Tools: C++, Cmake



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

### • Real Estate market data scraper and analyzer

November 2025

Tools: Python, PostgreSQL



- Built a data pipeline that scraped raw data from a website, organizing and cleaning it according to the Tidyverse schema, storing it in PostgreSQL and conducting statistical analysis and data visualizations of the Azerbaijan real estate market.

### • Cormat: 3D physics engine from scratch.

March 2024 - June 2024

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 particles with collisions.

## SKILLS

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

## OTHER

### • Azerbaijan Olympiads forum maintainer

Art of Problem Solving Forum

April 2022 - September 2022



### • Azerbaijan juniors' mathematics camp participant

Azerbaijan Olympiad camp training students for math competitions such as the IMO, BMO, and JBMO.

September 2021 - June 2022

### • Azerbaijan mathematics team selection tests participant

Azerbaijan Team Selection Tests (TST) for math competitions such as the IMO, BMO, and JBMO.

September 2021 - June 2022