

Yusif (Joseph) Mehdiyev

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

Glasgow, United Kingdom
Azerbaijani citizen

EDUCATION

• University of Glasgow

BSc in Mathematics (and Statistics)

◦ Recipient of Azerbaijan's full-ride state scholarship

◦ GPA: 21/22

◦ Full list of coursework and self-study available at: [in this link](#)

2025 - 2028

Glasgow, United Kingdom

• ADA University

BSc in Mathematics

◦ GPA: 3.96/4.00

◦ Rector's list of honor

◦ Lotfi A. Zadeh list of honor

2024 - 2025

Baku, Azerbaijan

EXPERIENCE

• Teaching Assistant at ADA university

Teaching Assistant in Linear Algebra

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

February 2025 - May 2025

Baku, Azerbaijan

SELECTED PROJECTS

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

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.

January 2025 - Ongoing



• Real Estate market data scraper and analyzer

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.

November 2025



• Cormat: 3D physics engine from scratch.

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.

March 2024 - June 2024



SKILLS

• **Programming Languages:** C, C++, Python, R, Lua, CUDA

• **Libraries:** NumPy, SciPy, Pandas, Matplotlib, Seaborn, 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