

Yusif (Joseph) Mehdiyev

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EDUCATION

- **University of Glasgow** 2025 - 2028
BSc in Mathematics(FR) 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** 2024 - 2025
BSc in Mathematics Baku, Azerbaijan
 - GPA: 3.96/4.00
 - 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** 2013 - 2024
General Secondary Education Baku, Azerbaijan

EXPERIENCE

- **Teaching Assistant in ADA university** February 2025 - May 2025
Teaching Assistant in Linear Algebra Baku, Azerbaijan
 - Assisted with grading homework or exams, proctoring exams, tutoring, offering office hour assistance to students, and performing clerical tasks associated with course instruction.

PROJECTS

- **Cormat: 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

- **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

• 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