

Yusif (Joseph) Mehdiyev

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EDUCATION

• University of Glasgow

BSc in Mathematics(FR)

- Azerbaijan's Full Ride State Scholarship Recipient
- GPA: 21/22
- Full List of Coursework and Self Study [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
- IELTS: 7.5 (8.5/8.5/6.5/6)

2024 - 2025

Baku, Azerbaijan

EXPERIENCE

• Teaching Assistant in ADA university

Teaching Assistant in Linear Algebra

February 2025 - May 2025

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

• Cformat: 3D Physics engine from scratch.

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

March 2024 - June



- 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++.

Tools: C++, Python, Cmake

November 2025 - Ongoing



- 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

Tools: Python, PostgreSQL

November 2025 - Ongoing



- 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, 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 (C1), French (B1)