

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.

SELECTED PROJECTS

• Numerical Methods library written scratch in C++.

Tools: C++, Cmake

January 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, numerical integration, statistical computation etc.

• Azerbaijan's Real Estate market scraper and analyzer

Tools: Python, PostgreSQL

November 2025



- Built a proper data pipeline including scraping raw data from website, organizing and tidying according to Tidyverse schema, storing it in PostgreSQL and conducting statistical analysis and data visualizations about Real Estate market of Azerbaijan.

• Corman: 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.

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)