Yusif (Joseph) Mehdiyev

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Glasgow, United Kingdom

Citizen of Azerbaijan

EDUCATION

- **University of Glasgow** — *2025 - 2028*
  BSc in Mathematics (and Statistics) — 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

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.

SELECTED PROJECTS

- **Numerical Methods library written 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 computatin etc.

- **Azerbaijan's Real Estate market scraper and analyzer** — *November 2025*
  Tools: Python, PostgreSQL
  - 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.

- **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.

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** — *April 2022 - September 2022*
  Art of Problem Solving Forum
- **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
- **Azerbaijan Mathematics Team Selection Tests Participant** — *September 2021 - June 2022*
  Azerbaijan TST for famous mathematical olympiads such as IMO, BMO, and JBMO