Yusif (Joseph) Mehdiyev

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 JosephMehdiyev Yusif Mehdiyev

Glasgow, United Kingdom, Student Visa
Eligible to work in UK

EDUCATION

- **University of Glasgow** — *2025 - 2028*
  BSc in Mathematics(FR) — Glasgow, United Kingdom
  - Azerbaijan's Full Ride State Scholarship Recipient
  - Full List of Coursework and Self Study in this link

- **ADA University** — *2024 - 2025*
  BSc in Mathematics — Baku, Azerbaijan
  - Major GPA: 4.0/4.0
  - 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 Excel, 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 Mathmetical Olympiad and International Mathematics Olympiad.

- **Azerbaijan Juniors' Mathematics Camp Participant** *September 2021 - June 2022*
  Azerbaijan Olympiad camp for training invidiauls 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 abilities975975

- **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