

Yusif Mehdiyev

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 JosephMehdiyev  Yusif Mehdiyev

Azerbaijan, Baku


EDUCATION

- **ADA University** 2024 - Present
Bachelor of Science 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)
 - Full List of Coursework and Self Study at <https://josephmehdiyev.org/about/coursework.pdf>
- **Complete Secondary School Number 12** 2013 - 2024
General Secondary Education Baku, Azerbaijan
 - CGPA: 4.97/5.00
 - SAT: 1500/1600 (790 M,710 W/R)
 - 11th grade DIM National Exam: 282/300
 - 9th grade National Exam: 263/300
 - 9th grade Honor's Certificate

EXPERIENCE

- **Teaching Assistant in ADA university** February 2025 - May 2025
Teaching Assistant in Linear Algebra Baku, Azerbaijan
 - Helping faculty with a large lecture class by teaching students in recitation, laboratory, or discussion sessions,
 - Assisting 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 math software for visualizing mathematical functions from scratch** March 2024 - Present
Tools: C++, Cmake, OpenGL, GLFW, ImGui, GLSL shaders 
 - Developed a 3D math visualization tool from scratch using C++ and OpenGL, enabling users to plot and interact with mathematical functions.
 - Implemented Linear Algebra transformations (e.g., translation, rotation, scaling) to manipulate 3D objects and camera perspectives programmatically.
 - Designed and structured the project using Object-Oriented Programming (OOP) principles for modularity, scalability, and maintainability.
 - Built and managed the project with CMake for organization.

SKILLS

- **Mathematical Knowledge:** Vector Calculus, Linear Algebra, Elementary Graph Theory, Elementary Number Theory, Probability and Statistics, Real Analysis, Group Theory
- **Programming Languages:** C, C++, Python, R, Lua
- **Database Systems:** PostgreSQL
- **DevOps & Version Control:** Git, Cmake, Docker
- **Language Knowledge:** Azerbaijani (Native), Turkish (C1), English (C1; IELTS 7.5), French (B1)
- **Other Tools & Technologies:** Latex, Linux (arch and debian based), Microsoft Excel, RStudio, Vim/Neovim, Tableau

CONTESTS, AWARDS AND OTHER ACTIVITIES

- **CodeForces Competitive Programming Contests**

May 2024 - Present

Practicing Competitive Programming skills periodically



- Actively learning and implementing algorithm concepts and data structures (e.g., dynamic programming, graph algorithms, trees, heaps) to solve problems efficiently and competitively.
- Practicing competitive programming techniques to improve problem-solving speed, optimize code performance, and write clean, efficient solutions.

- **Azerbaijan Olympiads blogger**

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

- **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