

# 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 - Since  
*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

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- **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