

Yusif Mehdiyev

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 [JosephMehdiyev](https://github.com/JosephMehdiyev)  [Yusif Mehdiyev](https://www.linkedin.com/in/YusifMehdiyev)

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
 - 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 - Present
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.
 - Planning to use the project for future simulation projects such as Fluid Simulations, Chaos Theory (n-tuple pendulums) simulations, Particle Simulations.

SKILLS

- **Mathematical Knowledge:** Multivar. Calculus, Linear Algebra, Elementary Graph Theory, Elementary Number Theory, Probability and Statistics, Real Analysis, Group Theory
- **Programming Languages:** C, C++, Python, Lua
- **Libraries:** Numpy, Scipy, Pandas, Matplotlib, Seaborn
- **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, Vim/Neovim, OpenGL, Tableau, JupyterLab

CONTESTS, AWARDS AND OTHER ACTIVITIES

- **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