

Yusif Mehdiyev Musa

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Azerbaijan, Baku


OBJECTIVE

I am seeking new internship opportunities and practical knowledge in Data analytics, Data Science and Machine Learning for my future career. I am aiming to contribute to innovative projects and learn experience in my field.


EDUCATION

- **ADA University** 2024 - Since
Bachelor of Science in Mathematics Baku, Azerbaijan
 - Rector's List of Honor
- **Full Secondary School Numbered 12** 2013 - 2024
Secondary Education Baku, Azerbaijan
 - GPA: 3.95/4.00
 - SAT: 1500/1600
 - 11th grade National Exam: 281/300
 - 9th grade National Exam: 262/300
 - 9th grade Honor's Degree

PROJECTS

- **Cormat: 3D math software from scratch** March 2024 - Since
Tools: C++, Cmake, OpenGL, GLFW, ImGui, GLSL shaders 
 - Developed OpenGL pipeline system to render the mathematical graphs
 - Implemented various algorithms and data structures for various purposes
 - Implemented Object Oriented Programming structure to organize the project
 - Planning to use advanced mathematical skills to optimize the rendering and improve the aesthetical quality of the project

PUBLICATIONS

- **Probability and Statistics with R and Python** March 2024 - Since
A notebook style amateur open-sourced book written for educational and personal purposes 
 - Talks about Probability Theory, Statistical Inference and its methods, various Statistical models, Simulations and Math behind Machine learning.
 - Includes coding examples in Python libraries such as pytorch, scikit-learn, scipy and R using tidyverse packages.

SKILLS

- **Mathematical Knowledge:** Pre-Calculus, Calculus, Linear Algebra, Elementary Graph Theory, Elementary Number Theory, Probability and Statistics, Mathematical Analysis
- **Programming Languages:** C, C++, Python, R, Lua
- **Database Systems:** PostgreSQL
- **Data Science & Machine Learning:** R tidyverse packages, python libraries (beginner): pytorch, scikit-learn, scipy, matplotlib, pandas, scipy, beautifulsoup4
- **DevOps & Version Control:** Git, Cmake, Docker
- **Language Knowledge:** Azerbaijani (Native), English (C1), French (A2)
- **Other Tools & Technologies:** Latex, Linux (arch and debian based), Microsoft Excel, RStudio

CONTESTS AND AWARDS

- **CodeForces Competitive Programming Contests**

May 2024 - Since



Practicing Competitive Programming skills periodically

- Learning new algorithm concepts and implementing them quickly
- Participating in contests all the time to gain more experience about CP
- Implementing new code techniques and improving coding skills

- **Azerbaijan olympiads blogger**

April 2021 - June 2022



Art of Problem Solving Forum

- Shared math olympiad problems used in Azerbaijan camps.
- Discussed about the hard questions and their solutions.

- **Azerbaijan Mathematical Selection Tests Participant**

September 2021 - June 2022

Azerbaijan TST for famous mathematical olympiads such as IMO, BMO, and JBMO

- Developed complex analytical and mathematical skills
- Used mathematical proof techniques such as proof by contradiction, induction and construction
- Learned and understood tricky Combinatorics and Number Theory theorems

- **"World Star" Gold Award Winner**

Finals 2021-2022



Thailand International Mathematical Olympiad

- Developed various analytical geometry and combinatorics methods

- **Gold Award Winner**

2021-2022



Singapore and Asian Schools Math Olympiad

- Developed fast and accurate thinking skills