Yusif Mehdiyev Musa

+994555418363 | yusifmehdiyev55@gmail.com | josephmehdiyev.org

 JosephMehdiyev

Azerbaijan, Baku

OBJECTIVE

I am seeking new internship opportunities and practical knowledge in 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 for high SAT score

- **Full secondary School Numbered 12**   *2013 - 2024*
  Secondary Education   Baku, Azerbaijan
  ◦ GPA: 3.95/4.00
  ◦ SAT: 1500/1600
  ◦ 11th grade Natioanl 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
  ◦ Will 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 modelds, Simulations and Math behind Machien learning.
  ◦ Includes coding examples in Python libraries such as pytorch, 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 (neovim)
- **Database Systems:** PostgreSQL(learning)
- **Data Science & Machine Learning:** Currently learning R tidyverse packages and important python libraries such as pytorch, matplotlib, pandas, scipy and beautifulsoup4
- **DevOps & Version Control:** Git, Cmake
- **Other Tools & Technologies:** LaTex, Linux (arch and debian based), Microsoft Office 365

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 Mathematical Selection Tests Participant** *September 2021 - May 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