Sagynbek Talgatuly

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Education and Academics

New York University Abu Dhabi *Expected May 2024*
Bachelor of Science, double major in Computer Science and Mathematics *GPA : 3.96/4.0*
- Courses : Computer Programming for Engineers (C++), Calculus with applications in Engineering, Multivariable Calculus, Discrete Mathematics, Data Structures (C++), Language of Computers (Python).

Nazarbayev Intellectual School *Sep 2015 – May 2020*
A-level education in Computer Science, Mathematics, and Physics. *GPA : 5.0/5.0*
- Co-Founder of Design Thinking Club.
- Member of Mathematics Olympiad Team, MUN, UNESCO, STEM Club.

Projects

Electromyography signal analysis *Nov 2020 – Dec 2020*
- *an analysis of relationship between grasp force and muscle activity.*
  - *Analysis on the datasets was processed using MATLAB.*
  - *Initial datasets were preprocessed (cleared, normalized, low pass filtered).*
  - *The datasets were segmented, and the relationship was identified using MATLAB Polyfit function.*

Covid-19 Data Analysis *April 2021*
- *data analysis of the data obtained from the official website of WHO.*
  - *Python libraries such as Pandas, NumPy, Matplotlib were utilized.*
  - *Pandas' built-in functions were used. as well as NumPy arrays and methods.*
  - *Important trends were visualized, and conclusions were made regarding the dataset.*

Authorization/Registration system *May 2021 – June 2021*
- *a website that allows the user to register and authorize to the system and go onto the main page.*
  - *Developed using HTML, CSS3, JavaScript, PHP.*
  - *Users' data is stored in a database and used for authorization.*

Data Visualization of Netflix movies dataset *June 2021 – July 2021*
- *visualization of a given dataset and making relevant conclusions.*
  - *Matplotlib, Seaborn, Pandas, NumPy libraries were used.*
  - *The top movies were analyzed and relevant patterns about the genre/language were obtained.*

Other Projects
Smart Cane, Image Steganography, Traffic Lights simulator, Movie Theater management system, Virtual Filesystem, Pill Reminder (Java), Data Visualization of Netflix movies dataset (Python), AR playing cards (C#)

Activities

Web Development
- *Took courses of frontend (HTML, CSS, JS) and backend (PHP, SQL) from w3schools and FreeCodeCamp.*
- *Currently taking part in the EPAM training on Golang programming language. (July 2021)*

Achievements

- 3rd place at IX Leonard Euler International Mathematical Olympiad *Mar 2017*
- Silver Medal at Republican stage of World Robotics Olympiad 2017 *July 2017*
- 3rd place at International Iranian Geometry Olympiad *Sep 2019*
- Silver Medal at XXXII Asian-Pacific Mathematical Olympiad (Kazakhstan) *Apr 2020*
- 1st place at Republican Science Fair (Engineering Section) *Feb 2020*

Technical Skills

Programming Languages: C++, Python, Java, Golang, HTML/CSS, JS, PHP, SQL, MATLAB
Tools/IDEs: NumPy, Pandas, Matplotlib, Seaborn, Requests, Git, MySQL, VSCode

Other

Languages: Kazakh, English, Russian   **Hobbies:** Volleyball, Swimming, Dombyra, Chess, Sudoku