SAGYN JUMADILDAYEV

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Experience

nFactorial Incubator   **Almaty, Kazakhstan**
Full-stack Developer Internship   *June 2023 - Aug 2023*
- Selected **among 4,100+** submitted applications from Central Asia, where **only 108 students** were accepted
- In the course of 10 weeks, developed an AI-based web app Freestyler using **React, TailwindCSS, FastAPI, OpenStreetMap, D3.js, OpenAI API and Yahoo GeoPlanet data**
- Project selected for Demo Day **among 20 from 108** other projects

"Nazarbayev Intellectual Schools Olympiads and Science Fairs" Telegram channel   **Remote**
Admin   *October 2023 - Present*
- Post about recent **achievements and honours** of NIS students in various competitions and information about upcoming competitions
- Channel has over **2000** followers
- Organize gathering events for NIS students during various competitions

Personal Projects

Freestyler - LINK
An AI-based web app   *June 2023 - Aug 2023*
- During the 10 weeks of nFactorial Incubator, implemented an **AI-driven** tour guide system with a **3D globe interface** capable of providing and responding to location-specific questions
- Participated in nFactorial Incubator Demo Day **(top 20 projects out of 108)**
- Accepted to **Microsoft for Startups Founders Hub**, receiving $2,500 of OpenAI API credits and other perks
- Got 3rd place at INFOMATRIX-ASIA **(among 450 participants)**

L-Tromino Tilings
Number Theory and Combinatorics Research   *June 2021 - June 2023*
- Project won the **first award in 8 years** for Kazakhstan at **Regeneron ISEF 2023** (Mu Alpha Theta Second Place Nomintation)
- Established the recurrence relations and congruences for the number of ways to fill the n × 7 grids with L-Trominos, given that one cell might either be present or missing
- Developed an efficient algorithm using **Dynamic Programming** and **Bitmasks** in **C++**

Achievements

- **2nd place award** and $1,000 prize at **Regeneron International Science and Engineering Fair 2023, the world's largest** international pre-college science competition
- **1st place** award at **Technocup** Competitive Programming Olympiad organized by **VKontakte**
- **1st place** at **Kazakhstan National Science Fair** for my Mathematics Research
- **1st place** at **Kazakhstan National Junior Olympiad** in Competitive Programming.
- **2nd place** at **Eurasian Team Olympiad in Informatics** among **321 teams of 3 people** from Shanghai Cooperation Organization nations.
- **Demo Day Participation** in nFactorial Incubator, **among 20 out of 4,100+ people** from Central Asia
- **3rd place** in **INFOMATRIX-ASIA** for my project **Freestyler**, among **450 participants** from **Hong Kong, Kazakhstan, Kyrgyzstan**, and **Turkmenistan**
- **Second-place winner** in Almaty which is given to **top 2 among 31 teams**, and **Global nominee** in **NASA International Space Apps Challenge**, given to **587 among 5500+ teams from 152 countries**.

Technical Skills

Programming Languages: Javascript, Python, C++
Developer Tools & Technologies/Frameworks: React, TailwindCSS, Qt, Pygame, Bootstrap, Flask, SQL, SQLAlchemy, FastAPI, MongoDB, AWS, Git, npm, Tensorflow, Keras, Matplotlib, scikit-learn, LangChain, Seaborn
Languages: Kazakh (Native), Russian (Native), English (proficient), French (intermediate)