

# Dilshodbek Khujaev

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## EDUCATION

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Carnegie Mellon University Qatar | Education City, Qatar

August 2024 – May 2028

### Bachelor of Computer Science

- **QCPC 2024 Winner**: Claimed first place in the Qatar Collegiate Programming Contest 2024.
- **ACPC 2024 Bronze medalist**: Achieved a bronze medal in the Arab & African Collegiate Programming Championship.

## EXPERIENCE

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### National Olympiads in Informatics

Tashkent, Uzbekistan

#### Coach & Team Leader

January 2024 – August 2024

- Mentored and trained top-performing students in advanced algorithms and data structures, leading to multiple national achievements and an **IOI** qualification.
- In collaboration with the Ministry of Digital Technologies, organized an educational camp for girls interested in IT, fostering diversity and inclusion in the field.
- Served as the **Coach** and **Team Leader** for Uzbekistan in the European Girls' Olympiad in Informatics (EGOI 2024), where a student achieved a **bronze medal**.

#### Scientific Committee

September 2023 – August 2024

- Created more than 40 IOI-styled competitive programming problems that include advanced algorithms and data structures, including graph theory, dynamic programming, and more.
  - Each problem consisted of 3–9 smaller subproblems, each requiring additional preparation and a feedback system, allowing participants to earn partial credit.
  - These problems were used in regional olympiads that served as selection rounds for **international olympiads** (IOI, EGOI, IZhO, etc.).
- Developed more than 25 ICPC-styled problems for various regional olympiads for high school students, where the hardest problems played a crucial role in determining the winners.

## Online Platforms

### CodeChef

January 2023 – May 2024

- Co-author of 5 algorithmic online contests hosted on CodeChef.com, a website with more than 3,000,000 users.

### WeCreateProblems (WeCP)

November 2021 – January 2022

- Worked as a problem setter at WeCP, a platform designed to test candidates on their technical skills. Authored more than 30 interview problems.

## HONORS & ACHIEVEMENTS

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- **IOI Bronze medalist**. International Olympiad in Informatics. Szeged, Hungary, 2023.
- **ACPC Bronze medalist**. Arab & African Collegiate Programming Championship. Luxor, Egypt, 2024.
- **QCPC Winner**. Qatar Collegiate Programming Contest. Education City, Qatar, 2024.
- **APIO Bronze medalist**. Asia Pacific Informatics Olympiad. Online, China, 2023.
- **IZhO Silver medalist**. International Zhatykov Olympiad in Computer Science. Almaty, Kazakhstan, 2022.
- **UzNOI Winner**. Uzbekistan National Olympiad in Informatics. Tashkent, 2023.
- **Meta Hacker Cup Round 3 Qualifier**, Top 300 globally. 2023.
- **IT Park Cup**. Awarded \$5,000 for winning the 1st place in the under-18 category. Tashkent, 2020.

## PROJECTS

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### Hue | [GitHub](#)

- Developed a fully functional multilevel color physics game, “Hue,” from scratch using Python and the CMU Graphics Library.
- Based on the 2016 video game “Hue,” developed by Fiddlesticks and published by Curve Digital; implemented custom collision detection and color-based puzzle mechanics.

## SKILLS & INTERESTS

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**Programming Languages:** C++ (14, 17, 20, 23), Python (3.x)

**Spoken Languages:** Uzbek (native), English (C1), Russian (C1)

**Interests:** ping pong, squash, board games.