

Work Experience

- 2024 – Present **Quantitative Researcher & Developer @ AGITProp**
- Creating algorithmic trading strategies, performing statistical research
 - Maintaining and expanding a wide range of the infrastructure
- 2023 Summer **Software Developer Intern @ DRW**
- Created a monitoring tool that interacts with 200+ employees daily and distributes the workload uniformly by alerting the right people
- 2022 Summer **Quantitative Research Intern @ WorldQuant**
- Developed a Meta Learning framework with evolutionary algorithms to mass-produce low-correlation Machine Learning trading strategies
- 2021 – 2023 **Senior Group Leader @ Alphacademy**
- Taught programming to 100+ children from novice to Olympiad level
 - Supervised six other teachers, interviewed and trained new teachers

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🏠 London / Cambridge

Education

- 2021 – 24 **University of Cambridge, Trinity College – Computer Science BA**
- Awarded **Full Trinity International Bursary** for academic excellence – **granted to only 5 students**
 - Winning **Second Highest Scoring Dissertation** for my research on **Reinforcement Learning for 2048**
- 2021 – 22 **University of Szeged – Computer Science**
- Awarded **Full Scholarship** for my research on ML for the National Research Excellence Program
- 2019 – 20 **KÜRT Academy – Artificial Intelligence Technology Training**
- Completed the course as the **youngest participant ever** to take part
- 2015 – 21 **Fazekas Mihaly Grammar School – Advanced Mathematics Class**
- Achieved **A*A*A*** equivalent final grades with a **Medallion of Excellence** for outstanding performance

Achievements

Mathematics

- Mathematics National Olympiad
1st (2018) – Consistently **Top 15** in all years
- Cambridge Test of Mathematics for University Admission
Top 3 (2021) – Among all Computer Science applicants
- Bolyai Academic Mathematics Championship
2nd (2017), **3rd** (2018), **2nd** (2019), **1st** (2020)
- Medve Outdoor Mathematics Contest
1st (2018), **1st** (2019)
- KOMAL Mathematics year-round contest
1st (2017), **2nd** (2018)

Computer Science

- Computer Science National Olympiad
1st (2019) – Consistently **Top 15** in all years
- International Olympiad of Metropolises
2nd prize (2019) – Qualified as one of just **two** students to represent my country
- Cambridge Rendering Competition
1st (2022) – Among all Computer Science students
- Project Euler (Computational Mathematics platform)
Top 0.04% globally (2022) – Solved **233** problems
- Codeforces (Competitive Programming platform)
Top 0.8% of all users (2021)
- Ericsson Programming Championship
2nd (2018) – Defeating 300 university students at 16yo

Robotics

- FIRST Global Robotics Championship
1st (2017) – **Invited to The White House by the Presidential Family** to celebrate our victory against 150+ competing countries
- World Robot Olympiad
1st (2018), **2nd** (2019) – Senior National Finals
- FIRST Lego League Robotics Challenge
1st (2018) – Senior National Finals
- Robot Programming National Championship
3rd (2017) – Award for most creative solution

Physics

- Physics National Olympiad
1st (2020) – Consistently **Top 10** in all years
- Bolyai Academic Natural Sciences Championship
2nd (2016), **2nd** (2017)
- Naboj National Physics Competition
1st (2018)
- Off-to-space! Astrophysics Contest
2nd (2021)
- Durer National Physics Competition
2nd (2020), **3rd** (2019)
- Vermes Miklos National Physics Competition
3rd (2017)

Other

- **Proficient in C++, Python, Java (100,000+ lines in each)** Low-level optimization, Machine Learning, also familiar with JavaScript, OCaml, Prolog, SQL... Able to quickly master new languages, frameworks, libraries
- **Cambridge Part II Dissertation – 2nd best among all 120+ undergraduates** by surpassing the **SOTA 2048 Algorithm with Reinforcement Learning** in a highly optimised custom simulator **written in C++**
- **Wigner Research Centre for Particle and Nuclear Physics – Invited to the Large Hadron Collider** to integrate our fully functional Muon-detector built as a year-round project
- **Great Court Run, Trinity College – 3rd** (2021), **2nd** (2022), **1st** (2023) – **Beating the Clock in 2023 (second in 16 years)**