

# Arda Tasci

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## Education

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### New York University

Sept 2025 – June 2027

*BS in Mathematics, Management Information Systems*

- GPA: 4.0/4.0

### New Jersey Institute of Technology

Sept 2024 – Dec 2024

*BS in Financial Technology*

- GPA: 4.0/4.0

## Experience

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### Data Analyst Intern

Sparta, NJ

*Colinear Machines*

Sept 2024 – Present

- Worked personally with CFO Charles Moroni and CEO Mark Heston.
- Automated the collection and auditing of 1476 tax reports using Pandas and Selenium.

### Website & Technology Administrator

Orange County, CA

*Laugh Out Together Foundation*

June 2022 – Present

- Raised over \$15,000 in school supplies for students in low-income areas in Santa Ana and Tustin.
- Led web development team and managed system administration. ([laughouttogether.org](https://laughouttogether.org) [🔗](#))
- Managed 3 teams consisting of 2 junior and 2 senior developers each.

### Research Intern

Newark, NJ

*New Jersey Institute of Technology*

June 2024 – July 2024

- Worked with Dr. Bader on evaluating the behavior and performance of triangle-counting and sorting algorithms in parallel computing via MPI.
- Wrote and debugged sorting and graph traversal algorithms in C.

### High School Research Assistant

Cambridge, MA

*Harvard University*

June 2023 – July 2023

- In a joint research initiative with NJIT, Assisted Dr. Pfister and his team in a PhD candidate's neural research project. ([Vimo](#) [🔗](#))
- Aided in the tracing and detection of neuronal connectivity motifs.

## Projects

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### RNA Structure Prediction Challenge

Palo Alto, CA

*Stanford University*

May 2025

- Created a transformer-diffusion ensemble model based on methods used in AlphaFold3, Protenix, and RibonanzaNet.
- Earned a gold medal by implementing a novel SE(3) denoiser function to achieve a TM score of 0.386.

### Cauchy, The Chess Coach

Palo Alto, CA

*GenAI Intensive, Google*

April 2025

- Created an Agentic Chess LLM via LangGraph by implementing a novel attention mechanism for board positions.
- Utilized FAISS, RAG to retrieve semantically relevant chess puzzles and create personalized insights on user's games.

## Awards & Certifications

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- United States Computing Olympiad (USACO) Gold Medalist
- Bloomberg Market Concepts & Finance Fundamentals Certification
- International STEM Olympiad - Programming Winner

## Skills

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- Python (Numpy, Pandas, Scikit-Learn, Pytorch, Keras, Tensorflow, LangChain Suite), C++, C, Bash (Linux), Excel (Office365), React.js, Javascript, C#, Next.js.