

# Davit Miroyan

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## Academic Interests

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Human-centered AI; Cognitive computation

## Education

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**University of Chicago** – Computer Science & Cognitive Science                      Sep 2025 – Present

**Quantum College** – International Baccalaureate Diploma (41/45)                      Sep 2022 – May 2024

- Relevant courses: Mathematics AA, Computer Science, Physics, Python and Math for ML

## Research & Projects

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### AI in education

- Designed and tested AI tools for mathematics education, focusing on personalization and formative feedback. ([GitHub](#))
- Collaborated with a New York Academy of Sciences team to develop an LLM agent implementing the Socratic teaching method. ([GitHub](#))

**Extended essay in math** – Comparative analysis of Hopfield Network and Boltzmann Machine.

**Software engineering** – Developed a data management system for an optometric center.

## Honors & Awards

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- Project of Distinction, 'Ethical AI' – New York Academy of Sciences                      Dec 2024
- Full Scholarship – University of California San Diego, FUTURES program                      Jan 2024

## Organizations & Volunteering

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- Armenian Red Cross Society
- Student Council at Quantum College

## Skills

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- Languages: English (proficient), Russian (proficient), Armenian (native)
- Programming languages: Python, Java
- Programming tools and frameworks: Flask, Git, VS Code, MySQL