

Edan Orzech

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I am about to graduate in 2022 from The Hebrew University of Jerusalem with a B.Sc. in Computer Science and Mathematics. I am particularly interested in research in the interface between Computer Science and Mathematics, Coding Theory and Game Theory.

Education:

2019-Present: The Hebrew University of Jerusalem, Israel.

- B.Sc. in Computer Science and Mathematics, GPA: 98 (expected graduation: 2022).
- “Amirim Computer Science Research-Oriented Excellence Program” for outstanding research-oriented undergraduate students.

2013-2019: The Hebrew University Secondary High School (with honors):

- Computer Science (10 study units), Mathematics (5 study units), English (5 study units), Arabic (5 study units).
- Final project in computer science (5 study units). Subject: Artificial Intelligence in the Game of Go.
Instructor: Michael Chernovilsky.
- Undergraduate courses in Computer Science and Mathematics as part of high school studies, The Hebrew University of Jerusalem, Israel.

Employment:

2021-Present:

- Teaching Assistant at the undergraduate Algorithms course, department of computer science.

Honors and Awards:

2020-Present:

- Amirim Excellence Program full scholarship.

2019-2020:

- Dean’s Award and Dean’s List for the academic year 2019-2020, The School of Computer Science and Engineering.

Additional Studies and Projects:

Undergraduate Research Projects:

- 2021-Present: Bachelor’s (Amirim) honors thesis. Subject: Bounds on Unique-Neighbor Codes. Working on a paper (can be found [here](#)).
Supervisor: Prof. Nathan (Nati) Linial.
- Spring 2021: Independent Study Course. Subject: The Nisan-Ronen Conjecture.
Supervisor: Prof. Noam Nisan.

Final Projects for Courses:

- Spring 2021: Hackathon in Introduction to Machine Learning. Subject: Identifying and Predicting Crimes in Chicago.
- Spring 2020: Final project in Artificial Intelligence. Subject: AI – Heuristics and Search Algorithms in Surakarta. Implemented a human-level agent using Alpha-Beta Pruning and MCTS.

Community Service:

- 2018-2019: Volunteering at the Jerusalem Zoo.
- 2017-2019: Volunteering as an assistant librarian at the high school library.
- 2016-2018: Tutoring high school students in mathematics in calculus and complex numbers and preparing for final exams.
- 2016-2018: Volunteering as an assistant coach in swimming classes and practices.

General Skills:

- Highly motivated
- Fast learner
- Languages:
Hebrew (native language), English (fluent), Arabic (intermediate level reading and writing)
- Programming languages: Python, C, C++, Java, LaTeX

Interests and Activities:

- Swimming:
2020-Present: Representing the Hebrew University swimming team in national academic competitions.
2008-2018: Competitive swimmer. Top 5 in Israeli National Championships. Participated in training camps in Europe and Asia.
- Trivia and History: Won 1st place in a competition of Itai Hermann (national TV trivia show “The Chase”).
- Strategy games (Chess, Go, card games).