

Tal Berdichevsky

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EDUCATION

Northeastern University, Khoury College of Computer Sciences, GPA: 3.857/4.0, Dean's List **Boston, MA**
Bachelor of Science in Computer Science, AI Concentration, Minor in Mathematics *Expected Completion: August 2024*
Relevant Coursework: Software Engineering(Graduate Level) | Computer Systems | Algorithms and Data Structures | Object-Oriented Design | Linear Algebra | Database Design | Cybersecurity | Mathematics of Data Models | Discrete Structures

Newton South High School, GPA: 3.91/4.0 **Newton, MA**
Awards: MA State Seal of Bilitracy(Hebrew & English) with Distinction, High Honor Roll (All Quarters), *September 2017-June 2021*
Warren B. Manhard Mathematics Award (Honorable Mention), AP Scholar with Honors
Experience: Math Teaching Assistant (Algebra I through BC Calc), Personal Math tutor (elementary-middle school levels)
External Coursework: Multivariable Calculus (**Harvard Extension School**), Sin x factorization (**MIT High School Studies Program**)

SKILLS

Programming Languages/Fields: Java | Swift | HTML | JavaScript | CSS | System Verilog | RISC-V Assembly | DLang | C
Software Tools: Jira | Figma | IntelliJ | XCode | Swift Playgrounds | Eclipse | Microsoft Office Suite | DataGrip | PhpStorm | PyCharm
Languages: English (Native) | Russian (Native) | Hebrew(Native) | Spanish (Conversational)

EXPERIENCE

Software Engineer Co-op- Content Recommendations (Wayfair) **Boston, MA**
July 2023-December 2023

- Developed new production recommendation strategies, optimized existing ones, established alerting for jobs/Airflow DAGs, and enhanced test coverage.
- Gathered input from various teams and worked on a validation endpoint for the content database used by marketing teams.
- Directly produced **11.5% GRS/User Lift** in Wayfair's biggest promo period by assisting in the dev. of a "Quarter Takeover" promo event.
- Designed and implemented an organization-wide support request form, automating ticket creation and team notifications. The form streamlined the team's support process, significantly improving efficiency and receiving high praise for its impact.
- Fostered a culture of teamwork through event organization.

Database Design Teaching Assistant (Northeastern) **Boston, MA**
January 2023-May 2023

- Advanced student learning by promoting collaborative thinking and extending knowledge beyond coursework.
- Graded assignments/exams and hosted office hours, providing feedback to best aid students' understanding.

Civic AI Lab Research Team Member (Northeastern) **Boston, MA**
September 2022-April 2023

- Conducted research on text summarization/NLP and modeling to support gig workers against disinformation.
- Reduced gig workers' uncertainty about disinformation in their information ecosystem by developing a website highlighting research findings. Improved website design to match gig workers' interests using qualitative analysis on prototype interviews.
- Spread awareness on the issue: presented achievements at **NATO Human-Centered AI Seminar** (November 2022).

MIT PRIMES Circle (Program for Research In Mathematics, Engineering, and Science) **Cambridge, MA**
January 2019-May 2019

- Explored Graph Theory under the mentorship of an MIT undergrad in a selective program.
- Offered students a unique view on Graph Theory by authoring an expository paper on Graph Theory and map coloring.
- Spoke at the **Ninth Annual MIT PRIMES Conference**, sharing insights on project highlights.

PROJECTS

ApartmentsNEU (MySQL, HTML/Bootstrap, Flask, Python) *November 2022-December 2022*

- A web application offering a solution to housing/realty difficulties by connecting students, advertisers, and realtors in the Boston area.

HowBusyIsMarino (HTML/Bootstrap, Flask, AWS) *September 2022-November 2022*

- A website presenting heat maps to track capacity trends at various NU gyms across campus, helping students determine workout plans.

Maze Simulator and Solver (Java) *May 2022*

- An interactive maze game using Kruskal's algorithm with user-driven and automated solutions via breadth-first and depth-first searches.

Game of Life App (Swift) *April 2020*

- An iOS app simulating the famous Game of Life, featuring user-drawn cells, variable evolution speeds, and save functionality.
- Incorporated pre-made evolve templates (e.g. bullet pattern) to enhance engagement, improving users' grasp on the game's algorithm.

ACTIVITIES & LEADERSHIP

AerospaceNU (Northeastern) Prototype Simulations Developer *September 2022-May 2023*

- Simulated satellite launches, ensuring mission safety and feasibility with appropriate component selection for the craft.

Oasis (Northeastern) Web Developer *September 2022-December 2022*

- Collaborated on the front and back end design of HowBusyIsMarino.
- Resolved common workout scheduling difficulties on campus by providing students with a clear overview of recent gym capacity trends.
- Explored different graphical analyses of web-scraped data to optimize user interaction.

KIND Club (Kids-In-Need Drive, NSHS) Co-Founder, Co-President *September 2019-May 2021*

- Led and organized meetings and fundraising events to support children and families in need in the greater Boston area and beyond.
- Donated to Black Lives Matter, Boston Children's Hospital, The Greater Boston Food Bank.