

Tal Berdichevsky

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Availability: June-December 2023

EDUCATION

Northeastern University, Khoury College of Computer Sciences, GPA: 3.84/4.0, Dean's List **Boston, MA**
Bachelor of Science in Computer Science, AI Concentration, Minor in Mathematics *Expected Completion: May 2025*
Relevant Coursework: Graduate Level Software Engineering, Computer Systems | Algorithms and Data | Object-Oriented Design |
Linear Algebra | Database Design | Digital Design | Cybersecurity | Math. of Data Models | Discrete Structures

Newton South High School (NSHS), GPA: 3.91/4.0 **Newton, MA**
Relevant awards: MA State Seal of Biliteracy with Distinction in Hebrew and English *September 2019-June 2021*
High Honor Roll(all quarters), Warren B. Manhard Mathematics Award (honorable mention), AP Scholar with Honors
Relevant experience during this time: NSHS Math. TA (Algebra I-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 | Python | System Verilog | RISC-V Assembly | DLang | C
Applications: Figma | IntelliJ | XCode | Swift Playgrounds (app dev.) | Eclipse | Microsoft Office Suite | DataGrip | PhpStorm | PyCharm | AWS
Languages: English (native) | Russian (native) | Hebrew (native) | Spanish (classroom level)

EXPERIENCE

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

- Foster a collaborative learning environment by encouraging collective thinking when attending to students.
- Support students' grasp on material and enhance their knowledge beyond base content through office hours.
- Grade assignments and exams, providing feedback to best aid students' understanding.

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

- Conduct research on text summarization/NLP&modeling; help gig workers understand issues in info. ecosystem.
- Reduce public uncertainty regarding disinformation by developing a website highlighting research findings (code&prototypes).
- Spread awareness on disinformation in gig workforce: presented achievements at **NATO Human-Centered AI seminar** (November 2022).
- Improve website design to match gig workers' interests by conducting qualitative analysis on prototype interviews.

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 student view on Graph Theory and map coloring by authoring expository paper on Graph Theory&map coloring.
- Presented at ninth annual MIT PRIMES conference to spread knowledge regarding project highlights.

PROJECTS

Personal Website *January 2023-Present*

- Ongoing project; Bootstrap UI showcasing achievements, interests, and general work highlights.

ApartmentsNEU *November 2022-December 2022*

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

HowBusyIsMarino *September 2022-November 2022*

- A website presenting heat maps to track capacity trends at various NU gyms across campus, helping students determine workout plans.
- Utilizes HTML/Bootstrap and Flask, as well as AWS for web scraping and as a previous hosting solution.

Maze Simulator and Solver *May 2022*

- An interactive game in Java producing a randomized maze of a chosen size using Kruskal's algorithm.
- Allows a user to attempt to solve maze or calculates an optimized solution using breadth-first or depth-first searches.

Game of Life App *April 2020*

- SwiftUI app simulating the famous Game of Life game, allowing a remote IOS user to conveniently draw cells by hand.
- App algorithmically evolves generations, including premade evolve templates (e.g. bullet pattern), improving users' grasp on its algorithm.
- Capable of speeding up/slowing down evolve process and saves games in separate tabs for an ultimate user experience.

ACTIVITIES & LEADERSHIP

AerospaceNU (Northeastern) Prototype simulations developer *September 2022-Present*

- Simulated conditions for satellite launch to ensure the safety and feasibility of the mission.
- Collaboratively evaluated and selected craft components for the upcoming undertaking.

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

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

KIND Club (Kids-In-Need Drive, NSHS) Co-founder, co-president, fundraiser organizer *2019-2021*

- 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.