Evan Keister

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EDUCATION

Northeastern University, *Boston, MA* *August 2021 - Present*

- **Major in Behavioral Neuroscience**, **Minor in Computer Science**, GPA: 3.871, Junior
- ***Behavioral Neuroscience Coursework:*** Clinical Neuroanatomy, EMT-B Training, Psychopharmacology, Biochemistry, Neurobiology, Biological Psychology, Physics I, Organic Chemistry I & II, Biology Project Lab, Genetics and Molecular Biology, General Chemistry, Foundations of Psychology, Inquires in Biological Sciences, Abnormal Psychology
- ***Computer Science Coursework:*** Algorithms and Data, Object Oriented Design, Fundamentals of Computer Science I & II, Discrete Structures, Foundations of Data Science, Database Design, Advanced Writing in the Technical Professions, Macroeconomics
- ***Accomplishments and Clubs:*** Dean's List (all semesters), NEURONS Club, Intramural Basketball League (Team Captain)

WORK EXPERIENCE

Beth Israel Deaconess Medical Center and Harvard Medical School, Research Assistant, *Boston, MA* *December 2023 – Present*

- Researching how circadian rhythms affect sexual behavior cycles in mice and evaluating for an underlying neural circuit.
- Performing data analysis on ultrasonic vocalizations (USVs) in males and mating patterns between mice. Assisting in the creation of graphical depictions of results from various assays. Researching under Sydney Aten, PhD, in the Saper Neurology Lab.

Brigham and Women's Hospital and Harvard Medical School, Medicinal Chemistry Co-op, *Cambridge, MA* *July 2023 – December 2023*

- Researching novel CNS drugs to treat Alzheimer's, Migraine, and Essential Tremor at the LDDN (Laboratory for Drug Discovery in Neuroscience) under Principal Investigator Kevin Hodgetts, PhD. Working to perform complicated organic synthesis reactions, computationally model biochemical interactions, and study the biological effects of synthesized drugs on the nervous system.
- Using liquid chromatography-mass spectrometry (LC-MS), recrystallization techniques, nuclear magnetic resonance (NMR), and high-performance liquid chromatography (HPLC) to purify and confirm the structures of compounds.

Northeastern University, Teaching Assistant, *Boston, MA* *September 2022 – December 2023*

- Hosting 4+ weekly office hours and review sessions to aid students in three classes: Discrete Structures, Organic Chemistry II, and Fundamentals of Computer Science I. Grading assignments and tests with the utmost attention to detail and working with professors to proofread assignments to ensure clarity.
- Instructed a corequisite lab course for Fundamentals of Computer Science I where I gave a weekly synopsis of new content covered in the course to expedite student growth, as well as assist students while working through challenging programming assignments.

Greater Southern Tier Boces, Mathematics Teaching Assistant, *Elmira, NY* *July 2022 – August 2022*

- Assisted a 7th-grade Summer School Classroom to learn foundational math concepts (fractions, decimals, percentages, linear functions, geometry, and simple statistics/probability). Prepared students to pass a final exam that was required to continue onto 8th grade.

VOLUNTEER EXPERIENCE

Boston Children's Hospital, Emergency Department Volunteer, *Boston, MA* *May 2023 – Present*

- Providing engagement with pediatric patients enduring long wait times at the emergency department by providing them with board games, toys, and other activities. Cleaning and restocking supplies to create a sanitary and organized environment.

Boston Cares, General Volunteer, *Boston, MA* *March 2022 - Present*

- Instructor for High School Equivalency Math Tutoring at X-Cel Education. Supporting students to master essential math skills.
- Lego Robotics classroom volunteer for STEAM Saturdays at Prospect Hill Academy (K-8 students).

Guthrie Corning Hospital, Concierge Desk Volunteer, *Corning, NY* *July 2019 – November 2019*

- Greeted visitors and patients to the hospital. Assisted with hospital logistics by relaying directions to offices and escorting patients.

COMPUTER SCIENCE PROJECTS | GitHub: https://github.com/evankeister

Health Hero *Fall 2023*

- A functional relational database model that allows for users of three different personas: patient, doctor, and pharmacist.
- Full-stack application created using SQL, Python, and AppSmith. Allows for functionalities such as diagnosing medical conditions, prescribing medications, and retrieving information about future appointments. Realistic data supplied to the database was created using Mockaroo.

Image Processor *Summer 2022*

- Created a GUI application using Java and an MVC architecture that is capable of loading and saving images of different file types, and applying different visual manipulations to images (rotations, greyscales, blurring, sharpening, and dimension downscaling).