

RIDA NAEEM

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EDUCATION

Boston University | Boston, MA

Expected Graduation: May 2024

B.A. in Neuroscience, minor in Computer Science

- GPA 3.73, Dean's List
- Related coursework: Software Engineering, Web App Development, Intro to AI, Data Structures, OOP, Linear Algebra, Cognitive and Neural Modeling, Computational Models of the Brain

LEADERSHIP & EXPERIENCES

Meyer Laboratory | Boston, MA

Sep 2022 – present

Research Assistant

- Work with DeepLabCut (Python, deep learning model) to collect data on freezing behaviors
- Write scripts in MedState Notation for mice fear conditioning experiments
- Analyze freezing data from hundreds of videos of mice in elevated plus maze in Excel and R, presenting analysis via Jupyter Notebooks

Boston University Educational Resource Center | Boston, MA

Sep 2021 – present

Tutor, Training Leader

- Work one-on-one with undergraduate students to improve their understanding of general chemistry and plan study strategies for four to six hours each week
- Run tutor training sessions, overseeing and critiquing tutor demonstrations

Women In Neuroscience | Boston, MA

Dec 2020 – present

Full Stack Developer, PR Coordinator

- Designed and currently developing scientific article-sharing platform for undergraduate students at BU doing research as part of initiative to promote undergraduate professional development
- Organize club events and maintain club's social media presence to followers

Sylvan Learning | Columbia, MD

Jun – Aug 2022, 2023

Instructor

- Planned curriculum alongside center director and led one cohort of SAT Camp, working with eight high school students twice a week to prepare for the SAT exam
- Worked with K-12 students for one hour each, up to three at a time to remediate math, reading, and writing skills by delivering lesson plans and assessments

PROJECTS

Easier Recipe – Full Stack Developer

- Designed in Figma and proceeded to develop a MERN web application for virtual recipe storing and sharing with redux state management and Google OAuth integration
- Implemented seamless conversion between imperial and metric units via Spoonacular
- Integrated multiple recipe scraper APIs to enable URL-to-recipe functionality

Pikmin Progress Tracker – Full Stack Developer

- Created a React application using TypeScript and Next.js to locally track user progress in the mobile game Pikmin Bloom, with features for data visualization
- Currently implementing SQL database storage and user sign-in for cross-device use

Culinary Community - UI/UX Designer, Front-End Developer

- Collaborated with a back-end developer to design and develop the front-end of a MERN web application, showcasing strong UI/UX design skills as part of a 24-hour BostonHacks project

Neural Modeling/Simulations – Computational Neuroscience Neural Modeling Course

- Modeled changes in neuron voltage in MATLAB and Python using the Hodgkin-Huxley, leaky integrate-and-fire, shunting, outstar, and instar equations/models
- Produced final project evaluating existing fear conditioning neural network and mean-field models, modifying them to account for sex differences in amygdala activity

SKILLS

Languages: Python (Pandas, NumPy), Java, MATLAB, R, HTML, CSS, JavaScript, Typescript, SQL

Technologies: React, Next.js, Git, Redux, Node.js, Express, MongoDB, GraphQL, Jupyter, Figma, Arduino