Kreena Totala

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Availability: July - December 2023

Education

Northeastern University, Khoury College of Computer Sciences
Candidate for BS in Data Science and Behavioral Neuroscience
GPA: 3.6 / 4.0 | Dean's List
Expected Graduation: May 2024

Skills

Languages: Java, Python, R, SQL, Racket, HTML, CSS

Software: MongoDB, Redis, React, Overleaf, MATLAB, IBM SPSS, Tableau, Google Analytics, Cypress, Docker, Postman

Relevant Coursework: Algorithms, Object Oriented Design, Database Design, Large Scale Information Storage and Retrieval, Information Presentation and Visualization, Data Management and Processing , Supervised Machine Learning

Professional Experience

Chewy - Boston, MA – *Software Development Co-op* July 2022 - Dec 2022
- Developed an updated version of the Invoice Page from scratch, expected to reduce customer service call volume by 4k calls/week.
- Gained experience in full stack development, automated testing using Cypress, and working on heavily trafficked storefront pages.

TA Fundamentals of Computer Science - Boston, MA - *Teaching Assistant* Sept 2021 - Present
- Lead lab sessions, hold office hours, grade assignments, and provide feedback on coursework.
- Assist 50+ students with coursework in a one-on-one environment in a given week.

FirstByte - Boston, MA – *Lead Website Developer* Sept 2021 - Present
- Direct a team involved in developing and updating FirstByte's website .
- Design and develop the website using React, HTML, and CSS.

mHealth Research Group - Boston, MA – *Machine Learning Research Assistant* Jan 2021 - April 2021
- Contributed to creating unsupervised machine learning algorithm using Python scripts.
- Algorithm detects proper hand hygiene behavior to minimize the spread of infectious disease such as COVID-19.

Northeastern Biomedical Research Club - Boston, MA – *Event Coordinator* Sept 2020 - Present
- Manage club's social media platforms and conduct outreach to other organizations, professors, etc.
- Organize and plan events such as workshops, information sessions, and guest speakers.

Personal Projects

Public Restroom Rating Application Nov 2021 - Dec 2021
- Designed and developed a full stack database application with a partner using **MySQL** and **Java**.
- Allows users to login to create and edit entries, as well as rate public restrooms in the Boston area. Full Report

Predicting Depression, Anxiety, and Stress Nov 2021 - Dec 2021
- Investigated trends and implemented supervised machine learning techniques using **Python** libraries and **R Studio**.
- Collaborated with a team to successfully build a model that can predict mental illness with some accuracy.
- Identified demographic and behavioral variables that can be potential indicators of mental illness. Full Report

Layered Image Editing Software May 2021- June 2021
- Created an interactive, full stack GUI interface for image editing and manipulation (blur, sharpen, mosaic, etc.)
- Utilized **Java** for the backend and **Java Swing** for the front end.
- Enhanced by adding the ability to load in and responsively view changes and create layers while editing.

Pediatric ADHD White Matter Analysis May 2019 - June 2020
- Investigated the poorly understood neurological underpinnings of ADHD at Stony Brook University. Abstract
- Used the software **DSI Studio** and **MATLAB** to analyze and compare the integrity of specific white matter tracts.
- Placed top at multiple local research competitions and reached **national** and **international levels of distinction**.

Interests

Digital Art, Design, Science Fiction, Baking, Traveling, Philosophy, Movies & TV