ROSE HEDDERMAN

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EDUCATION

The University of Texas at Austin, Austin, TX

May 2022

Bachelor of Sciences in Computational Biology and Neuroscience

Certification in Computer Science

Relevant Coursework: Software Design, Software Engineering, Computational Biology and Bioinformatics, Neural Computation (Graduate)

TECHNICAL SKILLS

• Proficient in Python and R; Familiar with Unix shell, Java and Excel; Exposed to HTML, Javascript, and Flask

WORK EXPERIENCE

Lease Lab, Dr. Matt Lease at The University of Texas at Austin

September 2020 – January 2021

Volunteer Research Assistant

Explored natural language processing tasks that investigate identifying ideological leaning in publications

FRI Supra Molecular Sensors, Dr. Anslyn and Dr. Zamora

August 2018 – December 2018

Undergraduate Research Student

- Constructed peptide-based sensors and indicator displacement assays in order to differentiate samples
- Investigated chemical complexity of mixtures while growing in biology and chemistry lab technical skills

Simply Tutoring, Spring, TX

Aug 2016 - May 2018

Tutor

Advised middle and high school students in STEM while encouraging their confidence in their academic abilities

ACTIVITIES & LEADERSHIP

Machine Learning and Data Science Club, Austin, TX

August 2020 - Present

Active Member

- Competing in the UT MLDS Semester Competition that combines image recognition and sequence methods
- Active in a community where short lectures are hosted on ML topics such as unsupervised learning algorithms

Women in Computer Science, Austin, TX

August 2019 - Present

Active Member

Partaker in a community of women navigating the Computer Science field through workshops and seminars
 BrainTerns through Lenox Hill Neurosurgery Summer Seminar Series, Online

Summer 2020

Virtual Intern

Observed Lenox Hill physicians, surgeons, and nurses demonstrate their work to students around the world

PROJECTS

Final Project Computational Biology and Bioinformatics

Spring 2021

- Analyzed a variety of neuroscience data using computational biology methods across various platforms
- Completed complex exploratory investigation of numerical and categorical neural processing data
- Excelled in programming in R and Python in R Studio and Jupyter Notebook to explore data

Class Project Elements of Software Engineering II

Spring 2021

- Built a website from scratch while learning development tools on the fly along the way
- Created an easy-to-use, all-in-one-place site for current high school students to use when looking for colleges
- Provided detailed information on specifics of the college search including name, location, and colleges of and within desired universities
- Deployed on GCP with HTML, Javascript, CSS, Bootstrap, and Postman implemented

2021 UBC x PCT Hackathon Finalist

Feb 2021

- Applied management skills by developing a prototype to help DaVita implement digital healthcare efficiently
- Collaborated with team members of a variety of backgrounds and team finished as a finalist
- Learned how to configure frontend prototyping service, Figma, in a week