Ruchira Sharma she/her/hers

(413)801-4396 rssharma@umass.edu linkedin.com/in/ruchirassharma

EDUCATION

University of Massachusetts Amherst | College of Information and Computer Sciences Exp. Graduation: May 2023
| Commonwealth Honors College, UMass Amherst
B.S. in Computer Science GPA: 3.55

Coursework: Advanced Algorithms (Python), Search Engines, Data Structures and Algorithms (Java), Seminar: Data Science and AI for Good, Computation, Linear Algebra, Computer Systems Principles, Statistics, Computer Science Programming (Java), Multivariate Calculus, Data Visualization, Programming Methodology (JavaScript), Artificial Intelligence, Machine Learning

PROJECTS github.com/Ruchira-Sharma

Flow at Tech Together Atlanta Hackathon 2022 Jan 2022

- Collaborated with 3 other teammates to build Web App for financial literacy
- Made the app in Python using Flask for the connection, HTML for the front end and SQL for backend.
- Successfully also created a text summarization feature using Sumy library.

HackMeet at HackUMass – 36 hr. hackathon Nov 2021

- Created a Java app in android studio for people to meet other hackers using tags
- Setup the login systems in the back end, and Firebase to manage the user database

Morse code converter: April 2021

- Created a game to help users learn morse code
- The game displayed visual and audio examples of morse code and compared user guesses to our database.
- Utilized tkinter tool with Python to build the interface, and firebase for backend

Page Ranker Nov 2021

- Programmed a Page Ranker which ranks web pages according to relevance using python
- Computed BM25 scores and Query Likelihood scores and ranked document

SKILLS

Programming Languages: Python, Java, HTML, SQL, C, JavaScript

Tools: GitHub, PyTorch, MATLAB, Figma, Canva, Slack, LATEX

ACHIEVEMENTS

- Won Best Interactive Art Hack Sponsored by Tech Together Atlanta
- Won First Overall Hack in Hack Girl Summer 2.0 conducted by MLH.
- Part of Dean List in Spring 21'
- Selected for Early Research Scholars Program 21'
- Selected for Bind-Slings Summer Research Program 21'
- VGHC Scholar 21'
- University of Massachusetts, Amherst, Tapia Conference Scholarship Award Winner

RESEARCH EXPERIENCE

- Making Semantic Analysis on code Mixed text with Indian languages more interpretable (Oct 21' – Present)
- Finding a better bound for edges in additive spanners. (Oct 21' – Present)