Snigdha Ghosh Dastidar

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EDUCATION

University of Illinois at Chicago (UIC), Chicago, IL   May 2023
Bachelor of Science in Computer Science, Minor in Mathematics
GPA: 3.92/4.00   Dean's List
Relevant Coursework: Software Design, Data Structures, Machine Organization, Programming Practicum, Languages and Automata, Unix Terminal Bootcamp, Program Design, Applied Statistical Methods, Applied Linear Algebra.

SKILLS

Programming: C++, C, Java, Python, MATLAB, R/RStudio, C#, MySQL, JavaScript, CSS, HTML.
Technical Skills: x-86 assembly, Maven, XML, Numpy, Pandas, Matplotlib, LaTeX, JUnit, UML class diagrams, agile.

EXPERIENCES

Break Through Tech Chicago   January 2021
Teaching Assistant
- Encouraged women to consider having a CS major or minor and assisting them to brainstorm new ideas to improve food banks and build an application prototype as a team in three days.
- Led two groups of four participants and handled zoom breakout rooms coordinating with the professor and TAs.

UIC, CS Department   May 2020 – June 2020
Undergraduate Teaching Assistant
Course: CS109 - Programming for Engineers with MATLAB
- Conducted lab sessions along with TAs and helped students in problem-solving and design using MATLAB.
- Held office hours to clarify student's queries, debug codes, and provided students with constructive feedback after interviewing them for the in-lab proficiency test.

COURSEWORK PROJECTS

15-Puzzle Game (Java)   April 2021
- JavaFX program that presents a unique solvable puzzle for every new game and animates move by move solution.
- Incorporated A* algorithm for one of the two AI heuristics by threading using Executors class.

Word Guess Game (Java)   March 2021
- Multi-threaded server/client game where the server plays simultaneously with each client that connects.

Open-street Maps (C++)   December 2020
- Program to navigate the shortest path between two points on the uploaded campus using Dijkstra's algorithm.
- Implemented custom graphs aggregating various data structures efficiently within runtime requirements and tested thoroughly using Google Tests.

File Compression (C++)   November 2020
- Coordinated with a partner to build a file compression algorithm to compress or decompress any kind of large files.
- Applied Huffman algorithm for encoding and decoding using a custom priority queue, binary trees, and a provided custom HashMap class.

DNA Profiling App (C++)   October 2020
- Developed using a doubly linked structure class that determines if the DNA strand file matches with the database.

Web Crawler (Python)   November 2019
- Built a program connecting python to the Internet that crawls through the webpages from the start URL to collect a list of unique email addresses.

MEMBERSHIPS

UIC Student Organizations, Chicago, IL   September 2019 - Present
- **Linux Users Group:** Interacted with cs professionals to acquire more knowledge related to Linux.
- **Women in Computer Science:** Attended cs alumni presentations and learned about the current industry affairs.