Neha Agarwal

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**PROFESSIONAL SUMMARY**

Software developer professional having 1 plus years of experience working with Java, C, Python, HTML, JavaScript, Linux system and latex. Experienced with tools and IDEs like Oracle, MySQL, PyCharm, Visual Studio and Code Blocks. Seeking new opportunities within software industry where I can add values to the existing technologies.

**EDUCATION**

University of Massachusetts Boston, Boston  **Present**

**Major** – Computer Science major and minor in Math

**GPA** – 3.805

Member of Computer Science Club

**ACADEMIC PROJECTS**

* **KdTree (Java)** – Implemented KdTree to search the nearest point from the given target point.
* **8-Puzzle (Java) –** Developed a board game using A\* algorithm, Hamming and Manhattan distance, and priority queue to solve puzzles of N \* N size.
* **WordNet (Java) –** Created a program using symbol tables and direct graph as the underlying data structure to find out the odd word out of the given words.
* **RSA Cryptosystem (Python) –** I built a security system in python by encrypting and decrypting a message.
* **Atomic Nature of Matter (Python) –** Re-affirmed the atomic nature of matter by tracking the motion of particles undergoing Brownian motion.

**TECHNICAL SKILLS**

Java, JavaScript, Python, APIs, C, HTML, Latex, CSS, Linux System, Microsoft Excel,

Microsoft Word, Microsoft Project, Project Management, Oracle, MySQL, Website Development,

Object-Oriented Programming , Data Structures and Algorithms

# WORK EXPERIENCE

**Software Engineer, Internship October 2021 – February 2022**

Aryan Consulting

* Responsible for web development using java and HTML
* Debugged and tried finding effective solutions of the defects/errors in the code.
* Prepared a tool to build resumes from the details provided by the user using java.

**Software Engineer, Internship**

Source Consulting **March 2021 – September 2021**

* Brainstorming with the team for creating an app to increase the interaction between the staff and clients smoothly.
* Worked on creating the website for the company and handled the website and blog page by keep updating it with the latest news.
* Helped the team to build a software in python to send emails to many recipients individually as the user wants.

**Supplemental Instruction Leader September 2021 – December 2021**

CS110 Course, UMB

* Explained several important concepts for the course and helped to clear and doubts of the students.
* Helped to explain the project writeups and to debug the errors in the projects.
* Provided the students with my own solutions for the sample exam.
* Had to hold 4 sessions per week each 75 minutes long.

**Peer Mentor**

CRW – 111 Course, UMB **September 2021 – December 2021**

* Helped the students with their writing skills and helped them to understand their own thought process.
* Helped them to remain updated with the new opportunities and workshops at campus by sending emails.
* Attended the meeting every week with the other peer mentors and manager to discuss about new ideas to bring new opportunities to the students to help them to be successful.

**Hope For Boston Homelessness, Volunteer Present**

* Volunteered to pack 50-60 backpacks with healthy snacks, clothing, bathing accessories, and water bottles.
* Helped to distribute them on every alternative Sunday to the people who are homeless and need help.