

Manasa M

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Available: Summer 2023

EDUCATION

Northeastern University, Boston, MA September 2022
Khoury College of Computer Sciences Expected May 2024
Master of Science in Computer Science 3.84
Related courses: Programming Design Paradigm, Database Management Systems, Algorithms, Mobile App Development

University Visvesvaraya College of Engineering, Bangalore, India August 2021
Bachelor of Engineering, 84.4
Related courses: Object Oriented Programming, Data Structures, Software Engineering, Computer Networks

TECHNICAL SKILLS

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- Programming languages: Java, C++, C, C#, JavaScript, HTML, CSS.
 - Tools and Frameworks: Python Flask, Django, Angular, ReactJS, ExpressJS, NodeJS, ASP.NET, ExtJS, MERN stack, MEAN stack, Git, MYSQL, MongoDB.

PROJECTS

Stock Market Trade Simulator, Java, Java Swing, JUnit, MYSQL October 2022 - December 2022

- Built a stock trading simulator where users can simulate buying and selling of over 8400+ stocks and apply several strategies such as rebalancing portfolios and dollar-cost averaging.
- Designed a robust application using MVC architecture and various programming design paradigms like command design pattern, and adapter design pattern.
- Engineered the app to make it future-proof by adhering to the SOLID principles and built a clean and well-structured code to facilitate code-reuse, minimize code duplication.

Sorting/Searching Algorithms Visualizer, JavaScript, HTML, CSS April 2020 - June 2020

- Designed and developed a sorting and searching algorithms visualizer to visualize all major sorting and searching algorithms with 100% accuracy.
- Created the visualizer that can sort or search in an array of over 10,000 elements, each element represented as a block where height of the block corresponds to the value of the array element.
- Introduced a new feature to the visualizer to control the size of the array and the speed of the algorithms to upto 3 times.
- Plotted a final graph for all sorting and searching algorithms with the time taken by each algorithm thereby analysing the time complexity of each algorithm.

WORK EXPERIENCE

Ivanti, Bangalore August 2021 - July 2022
Associate Software Engineer

- Refactored 50% of the entire ISM product singlehandedly to make it completely accessible.
- Revamped the UI to provide a cleaner aesthetic to the product.
- Collaborated across teams to resolve 15+ customer reported issues with 100% customer satisfaction.

Ivanti, Bangalore February 2021 - August 2021
Engineering Intern

- Improved the security of the application by 30% by successfully removing all the unsafe-inline eval and inline JS/CSS code.
- Refactored 100% of the entire codebase to work without any errors and without the need for allowing unsafe-inline and unsafe-eval in the CSP (Content Security Policy).