

Medha Gitay

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EDUCATION

- **University of North Carolina at Charlotte** Charlotte, NC
Master of Science in Computer Science **GPA: 4.0/4.0** *Jan 2022 - Present*
- **Jawaharlal Nehru Technological University** Hyderabad, India
Bachelor of Technology in Information Technology **GPA: 3.8/4.0** *July 2017 - July 2021*

WORK EXPERIENCE

- **Graduate Teaching Assistant** Aug 2022 - Present
University Of North Carolina at Charlotte *Charlotte, U.S.*
 - Worked as Graduate Teaching Assistant for the course Algorithm and Data Structures.
 - Demonstrated strong teaching abilities by leading discussion sections and labs for up to 75 students, resulting in a 10% increase in average exam scores.
 - Designed and implemented assessments such as quizzes and coding assignments to evaluate student understanding and provide individualized feedback.
 - Utilized data analysis and machine learning techniques to provide students with insights into the practical applications of algorithms and data structures.
- **Software Engineering Intern** Feb 2021 - July 2021
Seneca Global *Hyderabad, India*
 - Led the development of Good Reads, a full-stack web application enabling users to review, bookmark, and discover books using customizable filters based on genre and other criteria.
 - Utilized React and Flask frameworks to create a responsive and intuitive front-end design, resulting in a 25% increase in user engagement and a 15% decrease in bounce rate.
 - Conducted thorough front-end testing with Enzyme, ensuring application reliability, stability, and consistent compatibility across a variety of devices and platforms.
 - Boosted database performance with performance-tuning scripts, achieving a 30% reduction in query response time and a 25% increase in concurrent user capacity.

TECHNICAL SKILLS

- **Languages:** Python, Java, SQL, C, C++, JavaScript, HTML, CSS
- **Web Technologies:** Angular, React.js, React Native, Node.js, PHP, Bootstrap, XML
- **Backend Frameworks:** Hibernate, Express.js
- **Databases:** PostgreSQL, MySQL, Oracle, MongoDB
- **Other Tools:** Docker, Kubernetes, Flask, MATLAB, Postman, Git, VS Code, MS Office

ACADEMIC PROJECTS

- **Inventory Management using QR codes :**
Technologies used: HTML, CSS, Bootstrap, JavaScript, Angular, Node.js, MongoDB
 - Developed a Web Application to manage and track inventory items. Application supported entry of an inventory item, generating QR code for it, scanning item QR code to fetch the item details, and exposed an API to serve the inventory data.
 - Developed a public API through which the current inventory status can be tracked. Performed data analysis on the inventory data as well to generate dashboard reports.
- **Trade Arts :**
Technologies used: NodeJs, MongoDB, Express.js
 - Developed an interactive web application with NodeJs enabling artists to create, purchase and sell works of art.
 - Conformed MVC architecture in JavaScript for user authentication, validation, session management.
 - Implemented the add to cart and exchanging own art with other artists functionalities utilizing Mongo Database.
 - Created Rest APIs for data sharing between application components and for maintaining basic routing with ExpressJs.
- **Web Page Hosting in Docker Container Using AWS :**
Technologies used: Docker, AWS EC2, ECR, Route53, React
 - Designed and deployed web pages in Docker containers using AWS, ensuring high availability and scalability of the web hosting infrastructure.
 - Implemented this using Docker, and AWS services such as EC2 for AMIs and Load Balancers, ECR, Route53, ACM.
 - Monitored and analyzed web page hosting metrics using AWS tools such as CloudWatch, Auto Scaling to optimize performance, cost and improving the efficiency of the hosted web pages.

CERTIFICATES AND CURRICULUM

- Certified in Front-End JavaScript Frameworks: Angular and Deep Learning on Coursera.
- Certified in Problem Solving (Intermediate) Certificate on HackerRank.