

# Medha Gitay

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## EDUCATION

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- **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

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- **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

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- **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, Snowflake
- **Other Tools:** Flask, MATLAB, Airflow, Apache Kafka, Apache Spark, LINUX, Postman, Git, VS Code, MS Office

## ACADEMIC PROJECTS

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- **Find My Guru :**  
**Technologies used:** HTML, CSS, JavaScript, React.js, Bootstrap, Express.js, Node.js, MongoDB
  - Developed Find My Guru, a mentoring platform connecting users with suitable mentors worldwide.
  - Enabled users to explore mentors using various filters, while facilitating appointment booking with their selected mentors.
  - Conducted comprehensive testing, debugging, and code reviews to ensure a high-quality and scalable codebase.
  - Implemented chatGPT API, progress tracking, and rating systems for users and mentors to monitor their development and review feedback.
  - Leveraged MongoDB for efficient data storage and retrieval, improving system performance by 35%.
- **Trade Arts :**  
**Technologies used:** Node.js, 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.
- **Recession Analysis Using Python :**  
**Technologies used:** Python, Pandas, Matplotlib, SciPy, NumPy
  - Conducted recession analysis using Python, implementing Pandas for data processing and cleaning, achieving a 95% improvement in data integrity.
  - Employed advanced data visualization techniques with Matplotlib and Seaborn, enhancing information communication by 80%.

## CERTIFICATES AND CURRICULUM

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