

MUSKAN SHAH

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SUMMARY

Passionate software engineer currently pursuing a master's degree in Software Engineering, adept at crafting user-centric web applications. Eager to contribute technical expertise in functional testing and documentation processes in a collaborative environment

EDUCATION

Rochester Institute of Technology(RIT)
MSc in Software Engineering

Rochester, NY
Expected May 2025

Gujarat Technological University
BTech in Computer Science Engineering

Ahmedabad, India
May 2023

EXPERIENCE

Software Engineering Intern, CNS TECHS | Surat, India

Jan 2023 - May 2023

- Developed a Python automation script utilizing multithreading libraries to efficiently generate mock zones on a map for the flagship product
- Slashed a substantial amount of testing time for current and future features within that application segment
- Implemented a Python automation script that seamlessly integrated with real-time tracking devices to perform zone-based scans using multithreading libraries, API calls, and AWS resources
- Helped a development team optimize, create, and enhance features for the flagship application, utilizing Grails, Groovy, AWS, APIs, and SQL databases

PROJECTS

Nightclub | React.js, flask, python, PostgreSQL

- Demonstrated full-stack proficiency by spearheading the development of a dynamic web application for nightclub management using React.js, Python, & PostgreSQL
- Crafted & executed a CRUD system utilizing Python for club card management to overcome integration challenges, resulting in improved data efficiency & user accessibility
- Engineered dynamic color scheme adjustments on club cards using HTML/CSS/JavaScript & React.js, enhancing user engagement through real-time response to nightclub occupancy data.
- Elevated user retention by incorporating location-based filtering into nightclub search, elevating user experience & application usability

Paper Reviewing System | JavaScript, CSS, HTML, Node.js, MongoDB

- Incorporated an efficient paper submission & grading workflow by utilizing UML & data flow diagrams implemented through Lucidchart
- Administered project management skills to deploy an intelligent reviewer assignment algorithm, optimizing paper-reviewer matching for enhanced efficiency
- Devised & implemented a multi-reviewer system to drastically reduce review times through parallel processing & load balancing
- Scrutinized & implemented a review validation system with peer review & consensus algorithms to foster high-quality feedback, enhancing peer collaboration & project/team decision-making

Nutrition Tracker | React.js, Python, MongoDB

- Integrated ChatGPT API using Python and JavaScript for personalized diet plans, demonstrating NLP application
- Created a tracker for monitoring calories, food intake, water consumption, & weight using Python to facilitate achieving nutritional balance goals
- Achieved 96% code coverage with extensive unit tests for CRUD operations, using sinon for stubbing and mocking
- Restructured backend code to boost testability and data integrity with modular functions, improving data reliability through testing and code readability

Housing Services | JavaScript, Node.js, MongoDB

- Designed a user-centric housing services platform, demonstrating expertise in real-time data handling and user interaction.
- Established a streamlined system to facilitate user assistance requests & provider acceptances, showcasing efficiency & effectiveness in real-time data management and engagement process.
- Built a feature for forecasting service provider arrival, resulting in a significant enhancement of user satisfaction
- Ensured platform robustness & increased efficiency & reliability by managing user & service provider data effectively with MongoDB

SKILLS

Professional Skills: Problem-Solving, Version Control, Database Management, Communication, Teamwork, Adaptability, Rapid Prototyping, Scrum Methodology

Technical Skills: Java, Python, C, Javascript, Angular, HTML, CSS, Node.js, SQL, LLM, SaaS, Git, MS Office 365