

Mrudula Chilukuri

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Education

Master of Science, Information Systems

Northeastern University, Boston, MA

Expected December 2024

- Application Engineering and Development, Data Management and Database Design, Web Design and User Experience, Object Oriented Programming Design, Data Science Engineering Methods and tools, UI UX.

Bachelor of Engineering in Electronics and Communication

Osmania University, Hyderabad, Telangana

June 2022

- Neural Networks, Calculus, VLSI, Artificial Intelligence and Machine learning, Digital Electronics.

Work Experience

Web Developer, Voluntary Work

May 2023- July 2023

Northeastern University, Boston, MA

- Engineered a React.js and Python Flask-based search engine website, incorporating web scraping to collect and store 1 million data points in Elasticsearch, and implementing an intuitive user interface.

Analyst Intern

April 2022 - July 2022

Ecrimp Technologies, Hyderabad, Telangana

- Initiated inventory management by forecasting the requirement of raw materials for our manufacturing unit.
- Derived analytical insights to improve utilization efficiency of by-products generated by 30%.
- Revised the existing process planning and laid down the system to bring in output improvement by 7%

Research Assistant, Robotics and IOT Lab, Prof. Saber Hussain

April 2021 – September 2021

Osmania University, Hyderabad, Telangana.

- Pioneered a BCIxDL application, Cerebro-the first-ever go-to-market BCI wheelchair.
- Administered large-scale data collection from 50+volunteers collecting 500,00+EEG datapoints collaborating with Georgia Southern University.

Skills

PROGRAMMING LANGUAGES: Java, JavaScript, Python, SQL.

DATABASE: MySQL, MongoDB, MS SQL Server, Oracle, PostgreSQL, Redis.

WEB DEVELOPMENT: HTML, CSS, SASS, ES5, Bootstrap, React JS, Node JS, Angular, Axure XP, Figma, Django, Flask Express, Spring Boot.

TOOLS/IDE: Netbeans, VS Code, Eclipse, Jupyter notebook, MySQL Workbench, Git, Power BI.

OTHER SKILLS: Agile/Scrum, Elasticsearch, Jira.

Certificates: Python Data Structures, Google IT Support, Design thinking for Innovation.

Projects

Food Delivery Website

December 2023

- Developed a React-based food delivery web app with intuitive UI to increase user engagement and satisfaction.
- Robust Backend Infrastructure: Implemented a Node.js-based RESTful API with MongoDB, ensuring secure transactions, scalability, and efficient data management.
- Improved operational efficiency, increased revenue generation, and a positive brand perception through secure transactions, reduced errors, and data-driven decision-making.

Quotation App

December 2023

- Demonstrated full-stack development capabilities by integrating front-end React-JS applications with a Postgres database backend, emphasizing proficiency in both client-side and server-side technologies.
- Engineered a solution that streamlines the quotation process, significantly improving operational efficiency for sales teams and enhancing the customer experience by providing quick and accurate quotations.

Live-Messaging-and-Location-Sharing

August 2023

- Leveraged React, Redux, Axios, and Socket.io for application development.
- Ensured efficient state management, asynchronous data handling, and real-time messaging capabilities.
- Implemented robust error handling and response parsing which enabled seamless communication among travelers.

Health Care Management System

April 2023

- Developed a system to provide administrative support to health care facilities using Java Swing.
- Built it to scale accordingly using cross work functionalities, which could work natively across the different modules (Doctor Appointment, Vaccination Scheduling, Lab Test Log and Insurance Tracker)
- Implemented CRUD operations for admins and created work area management for each role under each division, partitioning user roles accordingly using permission checker. Summarized the key metrics of solutions using charts with prepopulated data.