VARSHA KARANAM

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EDUCATION

Master of Computer Science, Indiana University Bloomington	Expected 2025
Bachelor of Information Technology, SSN College Of Engineering, Chennai	2019 - 2023

SKILLS

LANGUAGES AND LIBRARIES	C/C++, Java, python, Numpy ,Pandas, Tensorflow, Pytorch, Matplotlib
WEB APPLICATION	HTML, CSS, React js, Javascript, Angular js, Express JS
CERTIFICATIONS	MongoDB, SQL,Snowflake

EXPERIENCE

Software Developer Intern — April 2023 - July 2023
RR Donnelley India — *Chennai, India*

- Developed a dynamic web application using React, jQuery, and SQL for backend data management.
- Implemented features including user authentication, project creation, task management, and real-time updates.
- Utilized RESTful APIs with Node.js and Express for CRUD operations on projects and tasks.
- Integrated middleware for user authentication and authorization, ensuring secure access to protected routes.
- Incorporated features such as task filtering, sorting, file uploads, and search functionality for enhanced user experience.

PROJECTS

Social Media API using FastAPI.

- Developed RESTful endpoints with FastAPI to facilitate CRUD operations (Create, Read, Update, Delete) for seamless data management.
- Integrated PostgreSQL database for efficient and optimized data storage.
- Conducted rigorous Postman testing to validate API functionality and ensure data integrity.
- Implemented robust authentication and authorization mechanisms to secure API endpoints.
- Leveraged FastAPI's asynchronous capabilities for enhanced performance and scalability.

Bus Ticket Booking Website.

- Spearheaded the creation of a user-friendly Bus Ticket Booking Website using the MERN stack.
- Engineered an advanced authentication framework leveraging JWT and password hashing techniques, elevating system security and thwarting potential breaches; enhanced overall user trust and satisfaction
- Created a graphical seat selection interface for users to choose the seats and displayed available and booked seats in real-time. This improves the overall user experience by providing a clear understanding of the available options.
- The project presented opportunities for improving problem-solving abilities.

Course Registration Website.

- Led a team of 3 to develop a Course Registration website using the MEAN (MongoDB+Node.js Express + Angular 14) stack, which made a significant impact by becoming the go-to platform for course registration within the university
- The backend server uses Node.js Express with Json web token for Authentication and Authorization, Mongoose for interacting with MongoDB database.
- Communicated with the client to analyze the requirements and steered the project accordingly.