VARSHA KARANAM

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EDUCATION

Master in Computer Science, Indiana University Bloomington   **AUGUST 2023 – MAY 2025**
Bachelor of Information Technology, SSN College Of Engineering Chennai   **JULY 2019 – MAY 2023**
CGPA: 8.824 on a scale of 10

SKILLS

LANGUAGES	C/C++, JAVA, PYTHON
WEB APPLICATION	HTML, CSS, REACT, JAVASCRIPT, ANGULAR, EXPRESS JS
DATABASES	MONGODB, SQL
CERTIFICATIONS	DOCKER AND KUBERNETES

PROJECTS

Blog Web Application.   **MAY 2023 – JULY 2023**

- A feature-rich Blog website using the MERN stack, allowing users to publish and explore content within 10 categories.

- Implemented a comprehensive user management system utilizing JWT authentication, enabling seamless user authentication and authorization across the platform, resulting in enhanced security and privacy controls.

- Tagged posts to improve both the organization and navigation aspects of the website. Used Agile Methodologies.

Bus Ticket Booking Website.   **SEPTEMBER 2022 – DECEMBER 2022**

- Spearheaded the creation of a user-friendly Bus Ticket Booking Website using the MERN stack.
- Led the implementation of the pre-authentication booking search feature, driving an improvement in user experience.
- 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.

Course Registration Website.   **JUNE 2022 – AUGUST 2022**

- Led a team of 3 and Built a Course Registration website using the MEAN (MongoDB + Node.js Express + Angular 14) stack which allows students to enroll in classes.
- 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.

BodyCare E-Commerce website.   **NOVEMBER 2021 – JANUARY 2022**

- Coordinated a 4-member team and Established an e-commerce website using Angular for the front end and Node.js with Express.js for the backend.
- Stored product details, including images, in a MongoDB database and created RESTful API endpoints using Express.js to fetch and display products. large volumes of unstructured or semi-structured data like product information can be handled easily.
- Designed the checkout process, including order summary, shipping address, and payment details.

EXTRA-CURRICULAR ACTIVITIES

- Managed around 8 welfare programs and facilitated 4 workshops of Rashtriya Seva Samithi, a prominent social service organization recognized by the Government of India.
- Volunteered in workshops and facilitated camps of the Sri Sivasubramaniya Nadar College Of Engineering's Youth Red Cross Club.
- Collaborated with the team of 10 and worked in public relationship department for cultural and technical fests 2022.