SHIVAM SARASWAT

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Education

Indian Institute of Information Technology, Gwalior   **October 2020 - May 2025**

Integrated Bachelors and Masters in Information Technology

Technical Skills

Languages: JavaScript, TypeScript, Go/Golang, C/C++, HTML/CSS
Frameworks and Libraries: React.js, Next.js, Angular.js, Node.js, Express.js
Databases: MongoDB, MySQL
Other Technologies: REST API, Git, Docker, AWS, Serverless

Experience

Software Developer Intern   **03/2024 – 06/2024**
Kinetic Codes | Homepage | NextJS, AWS S3, Docker   *Bangalore, India; Remote*

- Designed and implemented front-end systems using **Next.js**, enhancing user interaction for key projects like ProCamInspect.
- Improved user interactions with responsive design and state management, elevating the functionality and appeal of client-facing applications.
- Built a **WebSocket** server for realtime updates and 24-hour notification storage, significantly enhancing accessibility and user interaction by **25%.**

Software Developer Intern   **12/2023 – 02/2024**
ClimaCrew | Homepage | ReactJS, Express.js, AWS   *Hyderabad, India; Remote*

- Focused on enhancing the user interface for data-heavy applications, improving the accessibility and usability of complex environmental datasets for better user interaction.
- Engineered advanced GIS solutions, improving **AWS S3** for efficient storage and spatial analysis accuracy by **30%** through high-definition **TIF** image integration.
- Achieved **40%** reduction in infrastructure costs and accelerated project delivery by **20%** through effective cross-functional collaboration.

Software Developer Intern   **03/2023– 09/2023**
Quick Business House | Homepage | AngularJS, NestJS   *New Delhi, India; Remote*

- Restructured **ERP** software using **AngularJS** for the frontend and **NestJS** for the backend, ensuring seamless integration and robust functionality.
- Integrated **Socket.io** communication with **Nest.js** backends to enable real-time features, improving responsiveness and engagement.
- Collaborated within agile, cross-functional teams, driving innovation and delivering scalable solutions across multiple **ERP** projects to meet tight deadlines.

Projects

GoChat | *React.js, Golang*   **07/2024**

- Implemented a cutting-edge chat application using **React**, **Golang**.
- Achieved a **50%** reduction in message delivery latency through the implementation of parallel programming using **Goroutines** in **Golang**, providing users with an instant and seamless real-time chat experience.
- Implemented Pub-Sub architecture using **RabbitMQ**,improving message processing efficiency and enabling seamless message distribution in small to medium-sized chat rooms.

CodeBox: A Scalable, Dockerized Code Execution Sandbox | *Next.js, Docker, AWS*   **02/2023**

- Implemented **Docker-based sandbox** to run code in an isolated and secured environment supporting languages like C, C++, Python, Java & JavaScript.
- Orchestrated the containerization of the application using Docker, encapsulating all essential dependencies; leveraged the Docker image to optimize **AWS Lambda** functions, resulting in a **40%** reduction in deployment time and enhancing scalability

Achievements

- Runner-up of the AASF Winter Project Challenge - Development Track among 100+ participants.
- Winter Project mentor guiding 14 teams to build projects on domains such as Web, cloud, CN, etc

Position of Responsibilities

- Facilitated a 2 days workshop on **React.js & Next.js** for 150+ students at **ABV-IIITM Gwalior**- March, 2022
- Scriptwriter/Director of **Manchtantra**, the Dramatic Club at **ABV-IIITM Gwalior**.