Ishan Singh

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PROFILE SUMMARY

- Experienced Software Engineer with over **2+ year of expertise in React, Redux, Node.js, Express.js, MERN**, **JavaScript & TypeScript, Docker** delivering robust full-stack solutions.
- **Proficient in developing responsive, scalable, and high-performance web applications**, ensuring optimal user experience across devices.
- Currently freelancing and actively pursuing opportunities to apply my technical skills in building innovative, high-performance applications.

EDUCATION

Visvesvaraya Technological University (VTU)	**2018 – 2022**
Bachelors of Engineering, Computer Science and Engineering (BE-CSE)	*Bangalore, Karnataka*

TECHNICAL SKILLS

- **Experienced:** React, Redux, Node.js, RabbitMQ, Express, JavaScript, TypeScript, HTML5, CSS3, Tailwind CSS, MongoDB, Docker, REST, Git, GitHub
- **Familiar:** Python, Shell Scripting, GraphQL, Java, MySQL

WORK EXPERIENCE

Freelancing	**Sep 2023 – Present**
Full Stack Developer	

- **Contributed to the full stack development** of multiple client projects using the MERN stack.
- **Developed an image and video processing android application** using React Native, integrated with a Node.js backend and a React admin panel, enabling efficient content management, real-time processing, and seamless user interactions.
- **Developed a restaurant website** using JavaScript, HTML, and CSS, focusing on creating a visually appealing and user-friendly interface with features like a menu display, contact forms, and responsive design for optimal viewing on various devices.
- **Built a recommendation system** in node.js to enhance user engagement by providing personalized content suggestions.
- **Integrated REST APIs and third-party services**, such as payment gateways (Stripe), email services (SendGrid), cloud storage (AWS S3), and authentication services (OAuth), into existing projects, enhancing functionality, enabling secure transactions, and extending overall project capabilities.
- **Engineered pixel-perfect, responsive UIs** from Figma designs, ensuring cross-browser compatibility and enhancing user experience.

Betsol LLC	**Jun 2022 – Aug 2023**
Software Engineer	*Bangalore, India*

- **Developed dynamic, responsive, and cross-browser compatible web application,** enhancing usability across platforms.
- **Developed an event-driven microservices architecture** for a hospital application using RabbitMQ and Node.js to handle asynchronous tasks such as notifications, record updates, and appointment scheduling, resulting in improved system scalability and responsiveness for real-time operations.
- **Developed REST APIs for password reset and account verification via email**, ensuring secure user authentication flow with token-based verification and email notifications.
- **Led the development of a Launch Dashboard** for a backup and recovery application to monitor backup and recovery operations, streamlining processes and improving operational efficiency.
- **Improved React application performance and responsiveness** by optimizing API request handling, reducing redundant network calls and ensuring efficient resource utilization during high-frequency user interactions.

- **Developed custom data visualizations** using D3.js and Highcharts.js, boosting decision-making speed and data insight clarity.
- **Integrated REST APIs**, enabling efficient communication between client and server.
- **Developed client-side validation features**, reducing form errors and enhancing user satisfaction through immediate feedback.
- **Mentored two interns**, conducted technical interviews, and performed comprehensive code reviews, improving team performance and code quality.

IC Solutions   **Jan 2022 – Mar 2022**
Intern   *Remote*
- **Led the development of responsive web interfaces** using JavaScript, React, HTML, and CSS, improving overall user experience.
- **Developed REST APIs** for the Admin Panel Web Application.
- **Participated in code reviews**, adhering to best practices, improving code quality, and providing constructive feedback to peers.
- **Gained hands-on experience** across the full Software Development Life Cycle (SDLC), implementing Agile methodologies, and adhering to code quality standards to ensure efficient project delivery.

PROJECTS

Social Networking platform with automated content moderation and context-based authentication system
Technologies: React.js, Redux, Node.js, Express.js, MongoDB, Tailwind CSS, Flask, Hugging Face Transformers
- Built a MERN-based social networking platform with user authentication, profile/post management, commenting, and admin/moderator dashboards. Integrated automated content moderation using NLP APIs and a Flask-based classifier, and implemented context-based authentication with encrypted location, IP, and device data for secure logins.

Emotional Detection using Neural Network
Technologies: TensorFlow, Keras, OpenCV, Python
- Developed using Convolutional Neural Network, detects Real-time Emotions of a person based on the facial expressions.

Sorting Visualizer
Technologies: JavaScript, HTML, CSS, Sorting Algorithms
- A JavaScript web application for visualizing various sorting algorithms. Built for use of developers and educators alike. Implemented algorithms like- Bubble Sort, Selection Sort, Insertion Sort, Merge Sort, Heap Sort, Quick Sort.

RELEVANT COURSEWORK

- Data Structures
- Algorithm Analysis
- Artificial Intelligence
- System Programming
- Software Methodology
- Database Management
- Internet Technology
- Computer Architecture