ANKUR SINGH

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SKILLS

Programming Languages: Core Java, JavaScript, Typescript, HTML, CSS
Frameworks & Libraries: ReactJS, Node.js, Express.js, Bootstrap,Tailwind CSS
Developer Tools: Git, Git Hub, Postman, Rest APIs.
Databases: MySQL, MongoDB, Sequelize

WORK EXPERIENCE

ECHT TECH Consultancy Services Pvt Ltd   **July 2024- Present**
Jr. Software Developer
- Developed and maintained RESTful APIs and backend systems using **Node.js** and **Express.js**.
- Implemented secure user authentication with **JWT**, **OAuth**, and **session-based strategies**.
- Utilized databases such as **MongoDB**, **MySQL**, and **Sequelize ORM** for efficient data modeling, storage, and performance optimization.
- Leveraged **Git** and **GitHub** for streamlined version control, enabling efficient code collaboration, branching strategies, and project maintainability.

NETCOREINFO   **Sept' 2023- Feb' 2024**
Full Stack Developer trainee
- Designed and developed web applications using **front-end and back-end technologies**, contributing to over 5 projects.
- Collaborated with senior developers to implement user-friendly features and optimize system performance.
- Created **technical documentation** and assisted in resolving software issues to **improve** system reliability.

EDUCATION

IIMT COLLEGE OF ENGINEERING / AKTU   **2022-2024**
- Master of Computer Application | CGPA: 8.0

SAM HIGGINBOTTOM UNIVERSITY OF AGRICULTURE, TECHNOLOGY & SCIENCES   **2019-2022**
- Bachelor of Computer Application | CGPA: 7.4

MPVM / CBSE   **2018-2019**
- Class XII | Aggregate: 60%

MPVM / CBSE   **2016-2017**
- Class X | CGPA: 7.8

PROJECTS

E-Museum   **Nov'24**
- Developed **CRUD APIs** using **Node.js** and **Express.js** for managing museum data, ensuring efficient database operations and optimized query performance with **MongoDB**.
- Implemented **JWT** authentication and **Express sessions**, enhancing security and enabling authenticated user access.
- Integrated **Validator.js** library within the existing data pipeline, validating over 1M+ data points daily and ensuring adherence to data quality standards across the entire organization.
- Integrated **Socket.io** for real-time communication and applied **API throttling** to protect against abuse and improve system security.
- Engineered **API caching** strategy using **Redis**, slashing database query load by 60% and accelerating average API response times by 400ms, enhancing the application's scalability.

WeeCare   **May'24**
- Developed comprehensive Patient and Admin dashboards, integrating features like messaging and appointment booking for patients and doctor management for admins, resulting in a 40% reduction in administrative workload and improved user satisfaction.
- Integrated core features including **authentication**, **authorization**, and a responsive user interface to ensure secure access and seamless user experience.
- Tech stack: **JavaScript, ReactJS, Tailwind CSS, ExpressJS, MongoDB REST API**

E-Office   **Mar'25**
- Constructed **CRUD** functionalities for office data utilizing **Node.js**, **Express.js**, **TypeScript**, and **MySQL**, which supported multiple concurrent users with zero downtime, improving overall **data accessibility**.
- Designed and implemented a robust **role-based access control (RBAC)** system to enforce granular user permissions and safeguard sensitive data.
- Engineered a scalable **microservices architecture** with **Node.js,** decomposing the monolith into modular, independently deployable services—enhancing **system performance**, **scalability**, **fault tolerance**, and **maintainability**.

ACHIEVEMENT & CERTIFICATION

- Certified from **Microsoft** as **Microsoft Technology Associate** in **Core Java.**
- Completed 6 months Project based training program on **"IOT Basic Introduction using Thing Worx"** by the experts of **Dysmech Competency Services Private Limited (DCS)**
- Presented a research paper titled **"Applications and Challenges of Blockchain Technology"** at the National Conference on **"Recent Innovations and Developments in Engineering**, **Science**, **and Management."**