

Tushar Khuarna

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EDUCATION

Scaler School Of Technology

BSc in Computer Science

Bengaluru

July-2023 - July 2027

Birla Institute Of Technology And Science

Bachelor of Science in Computer Science

July 2023 – July 2026

ACHIEVEMENTS

- **Ranked 63rd Worldwide in CodeChef Starters Contest**, reflecting exceptional **problem-solving skills**.
- **CodeForces Rating: 1393**, showcasing strong **analytical skills** in **algorithmic problem-solving**.
- **LeetCode Experience**: Solved over **380 problems**, demonstrating extensive practice in **data structures** and **technical problem-solving**.
- **CodeChef Max Rating: 1794**, highlighting proficiency in **competitive programming**.

PROJECTS

Scalable Notification System | Backend: Node.js, GraphQL, MongoDB, Kafka, Docker

- Developed a **microservices-based architecture** to build a modular and scalable notification system.
- Implemented a **GraphQL Gateway** using **Apollo Server** for seamless client interactions.
- Designed and built a **User Service** for user authentication, registration, and preference management.
- Created a **Notification Service** to manage the creation, retrieval, and tracking of notifications for users.
- Utilized **Kafka** and **Zookeeper** to enable reliable event streaming and message brokering across services.
- Leveraged **Docker** for containerizing services and **Docker Compose** for simplified deployment.
- Developed **GraphQL queries and mutations**, such as user registration, fetching notifications etc.
- Integrated a **NoSQL database (MongoDB)** for efficient data storage and retrieval across services.

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- Built a **full-stack application** for creating, editing, deleting, and managing forms.
- Added the ability to **share form access** with other users for collaborative management.
- Implemented **anonymous response submissions**, ensuring users can submit forms anonymously.
- Developed a **dashboard** for viewing and managing form responses, improving user experience.
- Optimized the database schema in **MySQL** to handle large datasets efficiently.
- Integrated frontend form validation for improved UX and error handling.

Car Rental Management System | Spring Boot, MySQL, Docker

- Built a car rental system managing vehicles, customers, rentals, and branches.
- Developed RESTful APIs using **Spring Boot** with **MySQL** optimization.
- Implemented CRUD operations for cars, customers, rentals, and branches.
- Integrated **Docker** for deployment and tested APIs with **Postman**.
- Managed vehicle availability, rental costs, and history tracking efficiently.

Url Shortener | FullStack node, express, React, MongoDB

- Developed a full-stack **URL Shortener** application that allows users to create new short URLs.
- Implemented **hashing** techniques to generate unique short links, ensuring efficient URL management.
- Utilized **MongoDB** as the database for storing URL mappings and user data.
- Designed a responsive and user-friendly interface using **Tailwind CSS** for improved aesthetics and usability.
- Integrated real-time analytics to track URL usage and performance metrics.

TECHNICAL SKILLS

Languages: Java, C/C++, SQL (MySQL), Mongoose, JavaScript, TypeScript, Python, HTML/CSS, Kafka, Redis

Frameworks: Spring Boot, React, Node.js, Express, Tailwind CSS

Developer Tools: Git, GitHub, Docker, VS Code, IntelliJ, Postman, Vercel, Figma, CLI, Shell Scripting

Databases: MySQL, MongoDB

Methodologies: Agile Methodology, TDD arthurW1935