

Gaurav Singh

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EDUCATION

CHANDIGARH UNIVERSITY

MASTER OF COMPUTER APPLICATIONS (MCA)

July 2024 – Present | Mohali, Punjab
CGPA: 9.0 (up to 1st semester)

COURSEWORK

UNDERGRADUATE

Data Structures and Algorithms
Object Oriented Programming (OOP)
Database Management System (DBMS)
Computer Networks

SKILLS

LANGUAGES

Over 10000 lines:

- C • C++ • JavaScript
- HTML/CSS • SQL

FRAMEWORKS/LIBRARIES

- Tailwind CSS • React.js • Redux Toolkit
- Zustand

BACKEND

- Node.js • Express.js

ORM

- Sequelize • Mongoose

DATABASES

- PostgreSQL • MySQL • MongoDB

AI AGENTS

- Augment • Cursor AI

DEVELOPER TOOLS

- VS Code • Git • GitHub • ChatGPT • Claude • Chrome Dev Tools

SOFT SKILLS

- Problem-Solving • Critical-Thinking • Adaptability • Communication • Teamwork

CERTIFICATIONS

- Data Structures and Algorithms by Udemy: [See Credentials](#)
- The Complete Full Stack Web Development Bootcamp by Udemy: [See Credentials](#)

ACHIEVEMENTS

Solved 800+ DSA problems on [LeetCode](#).

EXPERIENCE

GOTRUST | Junior Software Developer - Node.js

gotrust.tech

April 2025 – Present | Noida, UP

GoTrust is a **privacy compliance automation platform** that helps companies discover, manage, and protect customers' data to ensure compliance with global data privacy laws like GDPR and DPDP.

- Contributed to the backend of key modules including **Data Mapping** and **Policy Management**, building and maintaining **RESTful APIs** using **Node.js**, **Express.js**, **PostgreSQL**, and **Sequelize ORM**.
- Worked on code **refactoring** and **optimization** to improve overall code readability and reduce time complexity, resulting in a **~20%** improvement in API response times under high-traffic conditions.

PROJECTS

TALKS - [PostgreSQL](#), [Express.js](#), [React.js](#), and [Node.js](#) [\[LIVE\]](#) [\[GITHUB\]](#)

Talks is a full-stack real-time chat application built using the **PERN** stack i.e., PostgreSQL, Express.js, React.js, and Node.js.

- Implemented **JWT-based two-step email OTP verification** and integrated **Google Authentication** for enhanced login security.
- Integrated **Zod** with **React Hook Form** for robust form validation.
- Used **Zustand** for state management and **DaisyUI** for multi-theme support.
- Built secure and scalable **RESTful APIs** with **Node.js**, **Express.js**, and **Joi** for robust backend validation.
- Leveraged **PostgreSQL** with **Sequelize ORM**, optimizing database queries and utilizing Sequelize associations to minimize redundant DB calls, improving API response times by approximately **30%**.
- Enabled **one-to-one and group messaging** using efficient schema design.
- Configured **Multer** with **Cloudinary** for secure and scalable image uploads.
- Integrated **Socket.IO** to enable bi-directional real-time communication across private and group conversations.

URL SHORTENER - [MongoDB](#), [Express.js](#), [React.js](#), [Node.js](#) [\[LIVE\]](#) [\[GITHUB\]](#)

URL Shortener is a **MERN** stack application that allows users to generate short links, track total clicks, and manage their custom URLs.

- Implemented **JWT-based two-step email OTP verification** to enhance user security.
- Implemented a **rate limiter** to limit users to **50** API requests per hour, preventing abuse and improving security.
- Designed and tested **RESTful APIs** using **Postman**. Optimized database queries to reduce latency by **30%**.
- The backend uses **Mongoose ODM** for defining and managing schemas, and is configured with **CORS** (Cross-Origin Resource Sharing) to enable secure API access. The frontend is styled with **Tailwind CSS** for a responsive design and uses **Axios** for efficient HTTP requests.

OTHER PROJECTS

- **Sorting Visualizer** – Live | [GitHub](#)
- **Amazon UI Clone** using **Firebase** and **Redux** – Live | [GitHub](#)
- Password Generator, Tic Tac Toe game, and Todo List app