

GAURAV SINGH

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Professional Summary

MERN Stack developer with **3 months** of backend-focused **product-based internship experience** in architecting **RESTful APIs** using **Node.js** and **Express.js**, with expertise in **React.js** for full-stack development. Proficient in Data structures and Algorithms, and API performance and Optimization. Adept at developing scalable, secure, and maintainable web solutions.

Technical Skills

Languages: C++, HTML/CSS, JavaScript, SQL
Frontend: React.js, Tailwind CSS, Redux Toolkit, Zustand
Backend: Node.js, Express.js, RESTful API
Database and ORMs: PostgreSQL, MySQL, MongoDB, Sequelize, Mongoose
Software Architecture: MVC (Model View Controller)
Version Control: Git, GitHub
Authentication and Security: JWT (JSON Web Token), OAuth (Open Authorization), MFA (Multi-Factor Authentication)
Testing: Postman, Chrome DevTools

Work Experience

GoTrust | gotrust.tech

Noida, Uttar Pradesh

Software Development Engineer Intern

April 2025 – July 2025

- GoTrust is a **privacy compliance automation platform** that helps companies discover and manage their customer’s personal data to ensure compliance with data privacy laws like GDPR and DPDPA.
- Created **10+ RESTful APIs** using **Node.js** and **Express.js** in collaboration with a **cross-functional team of 8**, ensuring reliable data exchange and seamless integration between frontend and backend systems.
- Refactored** legacy code, reducing the time complexity from **$O(n^2)/O(n^3)$ to $O(n \log n)/O(n)$** , eliminating redundant database calls, and achieving a 20% improvement in API performance.
- Integrated **third-party Open Router API**, enabling interaction with AI model and handling up to 50-100 API request/day with an average latency of 200ms.
- Performed **load testing** on key endpoints using **JMeter**, analysed bottlenecks via **SigNoz**, and refined backend logic to accelerate **API performance** by 20% under **heavy load conditions (1000+ concurrent requests/second)**.
- Collaborated in Agile workflows, participated in code reviews, and implemented clean code practices, resulting in improved maintainability and team productivity.

Projects

Talks | *PostgreSQL, Express.js, React.js, and Node.js*

[Live] [GitHub]

- Constructed **multi-factor authentication system (MFA)** and integrated **Google OAuth**, enhancing login security and improving user experience by 30%.
- Enhanced UI/UX with **React Hook Form**, **Zod** validation, **Zustand** state management, and **DaisyUI** with **35+ themes**, increasing UI customization and user satisfaction by 25%.
- Optimized database queries to reduce latency by 20% and leveraged **Sequelize** associations to minimize redundant DB calls. Enabled **real-time 1:1** and group chats with **Socket.IO**, and image uploads via **Multer** with **Cloudinary**.

URL Shortener | *MongoDB, Express.js, React.js, and Node.js*

[Live] [GitHub]

- Designed **JWT-based two-step email OTP authentication** system and enforced 50 API requests/hour **rate limiting**.
- Crafted responsive UI with **Tailwind CSS**, managed state via **Context API** to reduce prop drilling by 30%, and streamlined API communication using **Axios** and **CORS**, with additional features like **click tracking** and **analytics**.

Sorting Visualizer | *HTML, CSS, and JavaScript*

[Live] [GitHub]

- Built interactive visualization for **6 sorting algorithms** with customizable controls (array size, randomization, speed).

Certifications

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

Achievements

- Solved **800+** DSA problems on **LeetCode**, maintaining a **500-day streak** and earning **6000 LeetCoins** along with a **LeetCode T-shirt**.
- Ranked **114/4,169 (Top 2.7%)** in **#6Companies30Days** challenge by solving **150 DSA** problems (**5/day for 30 days**).

Education

Amity University

July 2021 – July 2024

Bachelor of Computer Applications (BCA); CGPA: 8.65

Noida, Uttar Pradesh

Relevant Coursework: Data Structures and Algorithms (DSA), Object Oriented Programming (OOP), Database Management System (DBMS), Computer Networks (CN)