

GAURAV SINGH

Software Developer | Full Stack MERN Developer

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Professional Summary

MERN Stack Developer with **internship experience** delivering scalable web applications using **Node.js, Express.js, React.js, MongoDB, and PostgreSQL**. Skilled in building **responsive UIs**, secure **RESTful APIs**, and **authentication systems (JWT, OAuth, MFA)**. Strong grasp of SDLC, **DSA (800+ problems solved on LeetCode)**. Proficient in Agile workflows, Git, SQL and cloud deployment (Vercel, Render).

Technical Skills

Languages: C++, JavaScript (ES6+), HTML5, CSS3, SQL

Frontend: React.js, Redux Toolkit, Tailwind CSS

Backend: Node.js, Express.js, RESTful APIs, Socket.IO

Database and ORMs: PostgreSQL, MySQL, MongoDB, Sequelize, Mongoose

Software Architecture: MVC (Model View Controller), Monolithic, Microservices (exposure)

Version Control: Git, GitHub

Authentication and Security: JWT (JSON Web Token), OAuth 2.0 (Open Authorization), MFA (Multi-Factor Authentication), RBAC

Testing: Postman, Chrome DevTools

Work Experience

GoTrust | gotrust.tech

Noida, Uttar Pradesh

Software Development Engineer Intern

April 2025 – July 2025

- Developed and deployed **10+ RESTful APIs** using Node.js and Express.js, efficiently handling **1,000+ requests/day** in collaboration with a cross-functional team.
- Engineered **6 backend features** by integrating a free AI model API, enabling intelligent data processing and handling **100+** requests/day with an average latency of 200ms.
- 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.
- Conducted **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*

[\[Live\]](#) [\[GitHub\]](#)

- Engineered a real-time chat app using **Socket.io**, efficiently handling **1000+** concurrent users.
- 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 db queries by implementing smart indexing strategies, to reduce latency by 20% and leveraged **Sequelize** associations to minimize redundant DB calls.

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*

[\[Live\]](#) [\[GitHub\]](#)

- Developed an interactive sorting visualizer, supporting 6 popular algorithms with customize controls for array size, speed, and randomization.

Certifications

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

Achievements

- 800+** DSA problems solved on **LeetCode**.
- Ranked **114/4,169 (Top 2.7%)** in **#6Companies30Days** challenge.

Education

Chandigarh University

Master of Computer Applications (MCA)

July 2024 – Present

Mohali, Punjab

Amity University

Bachelor of Computer Applications (BCA); CGPA: 8.65

July 2021 – July 2024

Noida, Uttar Pradesh