

# Sohail Ahmad

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## Summary

Software Development Engineer (B.Tech CSE, May 2026) with experience building secure, scalable web apps and REST APIs in Laravel, Node.js and MERN. Delivered 35% faster query retrieval via schema normalization and caching; implemented RBAC, JWT/OAuth, API rate limiting and Microservices. Built MindShield, a full-stack MERN app integrating Python NLP/ML with real-time dashboards. Multiple merged OSS PRs; mentored peers.

## Technical Skills

**Languages:** Java, C, C++, Python, JavaScript, SQL

**Backend:** Laravel, Django, Express, Spring Boot, REST APIs, JWT/OAuth, WebSockets, ORM (Eloquent)

**Frontend:** React.js, Responsive UI, Redux, TypeScript

**Databases:** MySQL, PostgreSQL, MongoDB, Schema Design, Indexing, Query Optimization

**DevOps & Tools:** Docker, GitHub Actions (CI/CD), Git, Linux, Postman, Mailtrap

**Performance/Quality:** Redis caching, Query profiling, Unit/Integration testing (PHPUnit, Jest), Postman/OpenAPI

**Concepts:** DSA, OOP, DBMS, System Design, Security (RBAC, hashing, validation)

## Education

**Indian Institute of Information Technology, Manipur**

Nov 2022 – May 2026

B.Tech, Computer Science & Engineering

CGPA: 7.5

**Don Bosco Academy, Patna – ICSE (Class X)**, Science – 91.2%

Dec 2019

## Experience

**Backend Developer Intern, 1stop** — Remote

Jan 2025 – Apr 2025

- Implemented Laravel Breeze auth with RBAC, session handling, and secure password reset to harden user access.
- Boosted performance by 35% through MySQL indexing, normalization, query profiling, caching, and smart pagination.
- Automated email alerts and status updates via Mailtrap and scheduled jobs; Dockerized the app for reproducible builds and smoother CI onboarding.

**Frontend Developer, ApexPlanet** — Remote

Jun 2025 – Jul 2025

- Developed and optimized responsive web pages using HTML, CSS, and JavaScript, improving UI performance and accessibility while adhering to clean code standards, Git-based version control, and industry best practices.

## Projects

**MindShield - AI Digital Discipline App (MERN, Python, NLP, JWT, Docker)** | [🔗](#)

Aug 2025 – Nov 2025

- Engineered a **MERN-based full-stack platform** with secure JWT authentication, modular REST APIs, and Dockerized deployment enabling 40% faster container startup.
- Integrated **Python NLP and sentiment models** to interpret journaling data, detect emotional context, and deliver adaptive habit and focus recommendations.
- Developed real-time **React + Chart.js dashboards** with WebSockets for live analytics, progress trends, and user feedback loops improving engagement by 25%.

**Full-Stack Booking Platform (Laravel, JS, MySQL, WebSockets, Docker)** | [🔗](#)

Apr 2025 – Jun 2025

- Built REST APIs and WebSocket channels supports 500+ daily booking events with real-time sync and low-latency.
- Implemented transactional booking validation and optimistic locking, reducing double-booking errors by 95% and ensuring ACID-safe operations.
- Secured user/admin workflows with Laravel Auth & RBAC; improved query performance by 40% through indexing, caching layers, and optimized schema design.

**Task Management REST API (Laravel, PostgreSQL, JWT, Mailtrap)** | [🔗](#)

Jun 2025 – Jul 2025

- Designed a REST API ( $\approx$ 22 endpoints) with task dependencies, role-based permissions and throttle-based rate limiting.
- Integrated deadline reminders (Mailtrap) and documented endpoints with Postman/OpenAPI for faster consumer onboarding.
- Engineered pagination and N+1 query detection; profiled queries and applied indexing to reduce response times.

## Achievements & Certifications

- Smart India Hackathon 2025:** Selected participant among 10,000+ teams; contributed backend idea.

- Competitive Programming:** 200+ LeetCode problems; organized campus coding events and mentored 50+ juniors.

- Cyber Fest:** Second prize in college cybersecurity competition. | [CERTIFICATE](#)

Apr 2024 – Apr 2024

- NPTEL:** The Joy of Computing Using Python (Elite + Silver) | [CERTIFICATE](#)

Jul 2024 – Oct 2024

- Istop:** Backend Development Internship | [CERTIFICATE](#)

Mar 2025 – Apr 2025