

Mohit Kumar Mandal

Portfolio: [memohit.vercel.app](#)

Leetcode: [leetcode.com/mohit1702](#)

Github: [github.com/mohit1721](#)

Email: mohitmandal192@gmail.com

Mobile: +91-9113325649

Linkedin: [linkedin.com/in/mohit1721](#)

SKILLS SUMMARY

- **Programming Languages:** C++, JavaScript (ES6+), TypeScript, Python (Basics), SQL, HTML5, CSS3
- **Frontend:** React.js (Hooks, Context API, State Management), Next.js, TailwindCSS, Responsive UI, Performance Optimization
- **Backend:** Node.js, Express.js, RESTful APIs, JWT Authentication, Role-Based Access Control (RBAC), API Security
- **Database:** MongoDB, Mongoose, MySQL (Query Optimization), Redis Caching, NoSQL Schema Design
- **Tools:** Git, GitHub, Postman, VS Code, MongoDB Compass, npm
- **Concepts:** DSA, OOP, OS, DBMS, Agile

EXPERIENCE

- **Optimiser** – Associate Software Engineer Remote (Mar 2026 – July 2026)
 - Enforced **server-side charge posting restrictions** across 8 Venue Booking pages via **MongoDB server events**, closing a critical client-side bypass vulnerability.
 - Engineered **Default Case Owner**, **SLA First Response** and **SLA Business Hours** configurations for the Cases module, enabling priority-based targets, time-zone-aware elapsed-time tracking.
 - Re-platformed a **Marketing Analytics Archive Service** from CommonJS to **ESM on Node.js 22**, migrating **AWS SDK v2 to v3** (S3, SES) with zero business-logic regression.
 - Fixed a production **S3 bucket/key** mismatch and an SDK v3 **cross-region redirect** regression, and added **divide-by-zero guards** on rate calculations to prevent corrupt **MongoDB Decimal128** values.
 - Migrated **RFP Region** from Dropdown to Multi-Select via an **idempotent migration** script, preserving full **backward compatibility** with existing production data.

Tech: **React.js, Node.js 22, Express.js, MongoDB, AWS SDK v3 (S3, SES)**

- **Optimiser** – Software Engineer Trainee Remote (Aug 2025 – Feb 2026)
 - Delivered features and resolved production issues across **Calendar**, **Dashboard**, **Task**, and **Template** modules.
 - Implemented **role-based access control (RBAC)** with module license validation.
 - Built **real-time synchronization** to ensure consistency across multiple users and sessions.
 - Developed **reusable utilities** for lookups, workflows, multi-select, and filters, improving development efficiency.

Tech: **React.js, Node.js, Express.js, MongoDB**

- **OS Code** – Software Engineer Intern Remote (March 2025 – June 2025)
 - Engineered a full-stack **eCommerce platform AVXIndia** using **Next.js, React, TypeScript, Tailwind CSS, Express.js**, and **MongoDB/Mongoose**, architected around a **RESTful API**.
 - Implemented secure **authentication & authorization** with **JWT, bcrypt** password hashing, **OTP email verification**, **RBAC**, protected routes, and **API rate limiting**.
 - Built end-to-end commerce workflows – product catalog, cart, wishlist, checkout, orders, coupons, reviews, and **Razorpay** payment gateway integration.
 - Developed a responsive **admin dashboard** with CRUD operations, **Cloudinary** image uploads, **PDF invoice/quotation generation**, analytics components, and a **Three.js** 3D product configurator.

Tech: **Next.js, React, TypeScript, Tailwind CSS, Express.js, MongoDB, Mongoose, Razorpay**

PROJECTS

- **Lernix** – Next-Gen Ed-Tech Hub for Seamless Learning (Live) (Github)
 - Developed a fully functional ed-tech platform enabling users to **create, consume**, and rate educational content.
 - Built a **RESTful API** using Node.js, handling **role-based authentication**, course management, and payments.
 - **Optimized** course retrieval, reducing load time by **30%** via **Redis** caching.
- **SafeReport** – Crime Reporting & Anonymous Submission Platform (Live) (Github)
 - Built an anonymous crime reporting platform with **role-based permissions**, allowing whistleblowers to report crimes securely.
 - Integrated Gemini AI for image/video analysis, **automating 90%** of report classifications.
 - Developed a role-based dashboard with search, filter, & pagination; **optimized** queries boosting retrieval speed by **50%**.

Tech: **React.js, Express.js, Node.js, MongoDB, Gemini AI, TailwindCSS**

AWARDS AND ACHIEVEMENTS

- Secured **3rd** place – Codescape Coding Contest (organised by college) [August 2023]
- Awarded **3rd** position – Hack-Track Hackathon (organised by college) [Jan 2023]
- Cloud And Digital Launchpad Certification – PwC [Jan 2024]

EDUCATION

- **Haldia Institute Of Technology** Haldia, India
 - *Bachelor of Technology – Computer Science Engineering* Sept 2021 – July 2025