

# Mayank Kumar

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## Summary

B.Tech Computer Science graduate skilled in **Full-Stack Development** and **Software Engineering** with expertise in **MERN stack (MongoDB, Express.js, React, Node.js)**, **Java**, and **Data Structures & Algorithms**. Proficient in building scalable web applications, RESTful APIs, authentication systems, and cloud-based solutions. Experienced with cloud deployment (**AWS, Render, Netlify**), version control (**Git, GitHub**), and **CI/CD workflows**, with a focus on backend development, API optimization, and modern full-stack development.

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## SKILLS

- **Programming:** C, C++, Java, Python
  - **Frontend:** HTML, CSS, JavaScript, React, Redux, Tailwind, Bootstrap
  - **Backend:** Node.js, Express.js
  - **Databases:** MySQL, MongoDB, Mongoose, Supabase, Firebase
  - **Tools:** Git, GitHub, Postman, VS Code, Eclipse
  - **Cloud & Deployment:** AWS, Netlify, Render, MongoDB Atlas
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## Projects

### Heal Zone – Doctor Appointment Booking System (MERN)

- **Engineered** a full-stack web app for online consultations with **JWT & bcrypt authentication** and **role-based access control (RBAC)**.
- **Created** RESTful APIs for appointment scheduling and doctor management following **MVC architecture**.
- **Integrated** Razorpay payment gateway for secure transactions.
- **Outcome:** Deployed on **Netlify/Render**, handling multiple roles (patients, doctors, admins).

### Real-Time Chat App (MERN + Socket.io)

- **Built** a real-time chat platform with one-to-one and group chat using **Socket.io & WebSockets**.
- **Applied** JWT-based authentication and optimized API calls for **low-latency performance**.
- **Crafted** a responsive React UI with persistent message storage in **MongoDB Atlas**.
- Deployed on **Heroku/Render with MongoDB Atlas**, handling **concurrent users in real-time**.

### Apply Ease – Job Portal (React, Supabase, Clerk, Shadcn UI)

- **Developed** a job portal with **job listings, saved jobs, and applicant tracking** features.
  - **Enforced** Clerk authentication with protected routes and RBAC.
  - **Planned & created** a modern UI using **React + Shadcn UI**, with real-time updates via **Supabase**.
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## EDUCATION

- **B. Tech (CSE)** | ABES Institute of Technology, Ghaziabad | *2021 – 2025*
  - **XII (CBSE)** | KALA Niketan International School, Delhi | *2019 – 2020*
  - **X (CBSE)** | KALA Niketan International School, Delhi | *2017 – 2018*
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## Certificate

### Java with DSA

- Learned Java fundamentals, **Object-Oriented Programming (OOP)** concepts, JDBC, Servlets, Hibernate, Spring, and Thymeleaf.
- Practiced **Data Structures & Algorithms (DSA)** including arrays, strings, linked lists, recursion, stacks, queues, sorting, and backtracking.

### Full Stack Development

- Certified in Full-Stack Web Development with expertise in MERN stack, scalable applications, API development, authentication, state management, and cloud deployment.