

# Aman Anurag

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## EDUCATION

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### CT University, Ludhiana, Punjab

Bachelor of Technology in Computer Science Engineering

8.67 CGPA

## TECHNICAL SKILLS

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**Frontend Development:** Javascript, React, Redux, Zustand, Next.js, React Native, Tailwind CSS, Material-UI, Bootstrap, Electron.js etc

**Backend Development:** Node.js, Express.js, Fastify, MongoDB, Postgresql, Prisma, Redis, Rabbit MQ, Docker etc

**Other Skills:** RESTful API Development, Data Structures & Algorithms, Version Control (Git), Github etc

**Developer Tools:** AWS , EC2, S3, CI/CD Pipeline, Cloudinary, DigitalOcean , etc

## PROFESSIONAL EXPERIENCE

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### Sensation Software Solutions, Pvt. Ltd

*Full Stack Developer*

*LeadNest - CRM Lead Management Platform*

Mohali, Punjab

July 2024 – Present

- Developed a full-stack **CRM application** using React 19, Vite, and TailwindCSS, featuring lead pipeline management, **dynamic form builder** with drag-and-drop, role-based access control, and advanced data handling with TanStack Table, Excel/PDF export, and fuzzy search.
- Integrated real-time communication & analytics including Twilio Voice SDK, WhatsApp messaging, Firebase notifications, **SignalR live updates**, **ApexCharts dashboards**, multi-language support (i18n), and Sentry error monitoring for production reliability.
- Contributed to **Supra.tools** by developing a dynamic **product analytics dashboard** using Next.js that processes complex feature matrices and visualizes data through interactive charts, reducing analysis time by **40%**.
- Developed Trace Venue - a **cross-platform desktop application** using Electron.js for venue and accommodation management system, featuring offline-first architecture, local database synchronization, native OS integrations, and seamless deployment across Windows, macOS, and Linux platforms..

### SensationSoftwareSolutions.

*Software Developer Intern*

**QRBasedRestaurantManagement System**

Mohali, Punjab

Jan 2024 – June 2024

- Developed **RESTful APIs** and integrated front-end components for using **Node.js, Express.js and React**,
- automating order processing to improve operational efficiency by **30%** .
- Enhanced search functionality with debouncing techniques reducing API calls by 60% and improved user experience through **Pagination** and real-time updates via **Socket.IO** .

Implemented email notifications using **Nodemailer** and optimized image uploads with **Cloudinary** , resulting in a **25%** reduction in system response time.

Tech Stack : JavaScript, Node.js, Express.js, React, Redux, Socket.IO, Chart.js, MongoDB, Cloudinary, Nodemailer

## PROJECTS

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### Course management system

 [Github](#)

- Full-featured course management with enrollment system, **structured video tutorials** with progress **tracking**, and secure payment integration. .
- Markdown-based **note-taking system with PDF** export functionality, plus **real-time quiz engine** with immediate feedback and scoring.
- Integrated **Monaco Editor** with multi-language support. Executes code safely in sandboxed **Docker**

**containers** via backend API

**Tech Stack:** React.js, TypeScript, Node.js, Express.js, MongoDB, Mongoose, Docker, Zod,

## Project IDX Clone



[Github](#)

- Dynamically provisions secure Linux containers for each project using **Dockerode**, ensuring consistency and isolation
- Full-featured in-browser terminal (xterm.js) connected via **WebSockets**, allowing shell command execution and server start-up
- Real-time file explorer supporting CRUD operations, powered by **Chokidar** for instant sync between UI and backend..

**Tech Stack:** React.js, TypeScript, Node.js, Express.js, MongoDB, Mongoose, Docker, Zustand

## Code Compilation and Execution Platform like Leetcode



[Github](#)

- Architected an advanced, highly scalable **microservices-based** platform for code compilation and execution, ensuring seamless scalability and high availability with AWS deployment and auto-scaling capabilities. Additionally, engineered a sophisticated Problem Admin Service using **JavaScript, Express, and MongoDB**
- Developed a cutting-edge Executor Service in TypeScript and Express, leveraging Docker containers to support **multi-language code execution** (Java, Python, C++). Employed Strategy and Factory design patterns to optimize execution environments and manage **Time Limit Exceeded (TLE)** conditions effectively
- Designed a robust submission service with Fastify, handling a high volume of requests with exceptional performance. Utilized **Redis message queues** for efficient **asynchronous communication**, ensuring seamless integration between submission and executor services. Implemented WebSocket services to provide real-time feedback to users, enhancing interactivity and responsiveness..

**Tech Stack:** React, JavaScript, Typescript, Node, Express, Fastify, Reddis, Docker etc

## MindFullness react native app



[Github](#) || [Apk](#)

- Custom audio player built with **expo-av** supporting background playback, seamless looping, and synchronized countdown timers.
- Robust local **push notification** system using expo-notifications to schedule personalized daily reminders and build consistency
- Implemented file-based routing with Expo Router for a clean, scalable navigation structure and native-like transitions

**Tech Stack:** React Native, Typescript, Tailwind Css, Expo etc

## ACHIEVEMENTS

- Delivered 2 hrs long session on Mern stack to the Btech final year students and awarded with Guest of Honor by **Lyallpur Khalsa College Technical Campus** college.
- Gold Medalist – **Awarded the Gold Medal** for securing the highest CGPA in the School of Engineering & Technology, batch 2020–2024. in B.Tech (CSE - AI)