

AMAN KUMAR

+91 6284736836 | amankarguwal0@gmail.com

<https://www.linkedin.com/in/amank736836> | <https://amank736836.vercel.app>

<https://codolio.com/profile/amank736836> | <https://github.com/amank736836>

Brief Summary

Computer Science engineer with hands-on experience in building scalable full-stack applications using MERN, Next.js, and cloud technologies. Currently working as a Software Engineer at Techpearl, improving high-volume data workflows and optimizing performance in enterprise systems. Built and deployed multiple production-grade projects and completed a software internship at Wabtec. Strong in problem-solving with 500+ DSA problems solved and a consistent academic record (GPA 9.24).

Education

Chitkara University

Bachelor Of Engineering – Computer Science Engineering – GPA: 9.24

Solan, Himachal Pradesh

Sep 2021 – May 2025

DAV Centenary Public School

Higher Secondary – 82.5%

Jaipur, Rajasthan

May 2020 – June 2021

DAV Public School

Secondary – 74.8%

Mohali, Punjab

May 2018 – June 2019

Skills

Java | C | C++ | HTML | JavaScript | MongoDB | Express.js | React.js | Next.js | Node.js | AWS | Socket | Docker | CSS

Experience

Software Engineer | Techpearl Software | Bengaluru, Karnataka | Sep 2025 – Present

- Optimized large-scale bulk user import functionality, utilizing bulk-insert functions and batch processing (tested up to 70,000 records) to reduce the import time for 9,000 user records from 30 seconds to 10 seconds.
- Dramatically improved the Organization Chart feature performance by revamping the backend query, replacing recursive logic with optimized joins, which decreased the query response time for 13,000 rows from 50 seconds to 0.200 seconds.
- Implemented a robust client-side Excel validation workflow with support for password-protected files, hyperlink-email correction, and multiple date formats using AnyDateParser. Added case-insensitive logic across client-side checks and PostgreSQL queries to ensure accurate user-hierarchy updates and correct calculation of the Top Manager flag.

Project Management Intern | Wabtec Corporation | Hosur, Tamil Nadu | Jan 2025 – Aug 2025

- Collaborated with developers, stakeholders, and functional teams to gather and refine requirements.
- Assisted in testing digital solutions, identifying issues, and ensuring product quality.
- Participated in discussions with stakeholders to address challenges, validate requirements, and secure approvals.
- Worked closely with developers to troubleshoot and enhance software performance.

Projects

Chat Champ – Real Time Anonymous Chat App | [Live Demo](#) | [Source Code](#)

- Built a real-time chat platform using MERN stack and Socket.IO for live communication.
- Secured interactions with JWT authentication, bcrypt password hashing, and AI-powered message suggestions (Google Generative AI SDK).
- Integrated file sharing, email notifications, and analytics via Cloudinary, Nodemailer, and Chart.js.
- Deployed on Vercel for scalability and cross-device performance.

AMAN KUMAR

Virtuo Store: Where Shopping Meets Virtual Convenience | [Live Demo](#) | [Source Code](#)

- Developed a **full-stack e-commerce platform** using **MERN stack** (MongoDB, Express.js, React.js, Node.js).
- Implemented **Firestore authentication** for secure login and **Razorpay** for seamless online transactions.
- Designed a **responsive UI with Tailwind CSS**, optimizing the user experience for various devices.
- Built a robust **shopping cart, order management system, and admin dashboard** for product management.

Nagini : Snake Game Web Application | [Live Deployed Link](#) | [Source Code Link](#)

- Developed a **dynamic Snake game** using **React.js** with real-time score updates and animations.
- Integrated **React hooks and refs** to ensure smooth gameplay and user interaction.
- Implemented API calls to fetch and display high scores in real time.
- Designed a fully **responsive layout**, ensuring a seamless gaming experience across all devices.
- **Implemented robust error handling** to manage data fetch failures and edge cases.

Certificates

- Sustainable Development Goals Build-A-Thon - [Participation](#) / [Achievement](#)
- Google Developer Student Clubs - Octa Hacks 4.0 - [View](#) / [Verify](#)
- Google Developer Student Clubs - Android Study Jams - [View](#) / [Verify](#)

Achievements

- Secured the **1st position** in **SDG Build-A-Thon** organised by the **Department of CSE**.
- **Top 15** in **Great India Hackathon** in my first year of college.
- Solved more than **500 Data structure and Algorithms** questions on various coding platforms.

Hobbies

- Swimming
- Listening Podcast
- Cooking
- Meditation
- Listening Music
- Traveling