

SHUBHAM SINGH

(+91) 7991694431 | shubh.shubhamkrsingh@gmail.com | [Shubham-404](#) | [Portfolio Website](#) | [Mysuru, India](#)

SUMMARY

Backend-focused Computer Science student with hands-on experience in building secure, role-based full-stack web apps and integrating ML-powered features. Adept at designing scalable APIs, optimizing performance, and delivering clean UI/UX for real-world solutions.

SKILLS

- Backend:** Node.js, Express, REST APIs, JWT, RBAC
- Frontend:** React, TailwindCSS, GSAP
- Databases:** MongoDB, Firestore, MySQL
- Languages:** JavaScript, Python, C++
- Machine Learning:** PaddleOCR, Data Visualization (Matplotlib, Seaborn)
- Tools & Cloud:** Firebase, Git, GitHub, Slack, Netlify

PROJECTS

KhataBook – Ledger Management App | [GitHub](#) ↗ Mar 2025 – Jun 2025

- Developed a secure full-stack ledger system with Node.js, Express, React, MongoDB, TailwindCSS, JWT, bcrypt, and three-layer data validation (frontend, route, schema).
- Added optional **auto-locking passcode** for sensitive records to enhance data protection.
- Delivered smooth UI with animated splash screen and robust backend APIs.

Utsav – Campus Engagement Platform | [Github](#) ↗ | [utsav-ems.web.app](#) ↗ Apr 2025 – May 2025

- Built a modern **RBAC**-based full-stack platform to centralize event registration, analytics, and participant engagement.
- Integrated Firebase & Firestore with caching for faster data retrieval, improving page load by ~35%.
- Implemented responsive UI using React + TailwindCSS, boosting usability on mobile devices.

Personal Portfolio Website | [shubham.app](#) ↗ Oct 2024 – Apr 2025

- Enhanced User Engagement:** Increased user engagement by 60% and time on site by 75% through iterative feature updates.
- AI-driven Spam Prevention:** Reduced spam submissions by 65% with AI-driven Gemini API form validation.
- Interactive Easter Eggs:** Added interactive features (music, avatar, Linux shell UI), boosting return visits by 50%.

ACHIEVEMENTS

- Operation Co-lead at Anveshan(Applied research & AIML club):** Managed a group of 10-15 people for learning ML and creating group projects.
- Amazon ML challenge:** Solved the Amazon ML challenge of extracting product specifications from a given image and dataset, using an OCR-NLP pipeline.

EDUCATION

B.E. in Computer Science & Engineering Aug 2023 – Jun 2027 (Expected)

The National Institute of Engineering (NIE), Mysuru | GPA: 8.6 / 10 (current)

- Relevant Coursework:** Data Structures & Algorithms, OS, DBMS, OOPS, Computer Networks & Cloud Computing

Kendriya Vidyalaya COD, Prayagraj (CBSE) Apr 2009 – Mar 2022

- Class 12 (PCMC): 94.6% (Apr 2021 – Mar 2022)
- Class 10: 89.4% (Apr 2019 – Mar 2020)

ADDITIONAL DETAILS

- Languages:** English (Fluent), Hindi (Native, Fluent)
- Hobbies:** Football, Painting, Sketching.