

# SHUBHAM SINGH

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## 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

<b>KhataBook – Ledger Management App</b>   <a href="#">GitHub</a>	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 <b>auto-locking passcode</b> for sensitive records to enhance data protection.	
• Delivered smooth UI with animated splash screen and robust backend APIs.	
<b>Utsav – Campus Engagement Platform</b>   <a href="#">Github</a>   <a href="#">utsav-ems.web.app</a>	Apr 2025 – May 2025
• Built a modern <b>RBAC</b> -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.	
<b>Personal Portfolio Website</b>   <a href="#">shubham.app</a>	Oct 2024 – Apr 2025
• <u>Enhanced User Engagement</u> : Increased user engagement by 60% and time on site by 75% through iterative feature updates.	
• <u>AI-driven Spam Prevention</u> : Reduced spam submissions by 65% with AI-driven Gemini API form validation.	
• <u>Interactive Easter Eggs</u> : 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>B.E. in Computer Science &amp; Engineering</b>	Aug 2023 – Jun 2027 (Expected)
<b>The National Institute of Engineering (NIE), Mysuru</b>   GPA: 8.6 / 10 (current)	
• <u>Relevant Coursework</u> : Data Structures & Algorithms, OS, DBMS, OOPS, Computer Networks & Cloud Computing	
<b>Kendriya Vidyalaya COD, Prayagraj (CBSE)</b>	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.