

# Amit Kumar

Software Developer || Full-stack Developer || Software Engineer

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## EDUCATION

**Indian Institute of Information Technology Sri City**   Andhra Pradesh, India  
B.Tech (Electronics & Communication Engineering) CGPA: 7.79/10   Expected 2026

## SKILLS

**Programming Languages:** C, C++, Python, JavaScript, HTML, CSS  
**Systems CS Fundamentals:** Operating Systems (RTOS), DSA, OOPs, DBMS, CN, Low-Level Design  
**Libraries/Frameworks:** ReactJS, NodeJS, ExpressJS, TensorFlow, PyTorch  
**Databases:** MongoDB, MySQL  
**Tools/Platforms:** Docker (basic), Jupyter Notebook, REST API, Git, GitHub, VS Code, Postman  
**Soft Skills:** Collaboration, Problem Solving, Communication, Leadership

## WORK EXPERIENCE

**AI/ML Intern – NSTL, DRDO**   May 2025 – July 2025  
*Research Internship*   Visakhapatnam, India

- Built and optimized Python pipelines to process 8K+ sonar images, improving workflow efficiency and enabling real-time object detection use cases (e.g., face detection during online exams).
- Automated dataset preprocessing and format conversion (YOLO → COCO), reducing manual effort by 40% and ensuring data consistency across models.
- Applied software engineering best practices — modular coding, debugging, testing, and version control — delivering scalable and reproducible solutions under resource constraints.
- [Supporting Work Samples \(Google Drive\)](#)

## PROJECTS & CONTRIBUTIONS

**Books Unbound – Full-Stack E-commerce Platform** | *MERN, JWT, Google OAuth, Stripe, Tailwind* [books\\_unbound](#)

- created a secure and scalable bookstore with authentication via Google OAuth and JWT, supporting 500+ users.
- Integrated Stripe payment gateway, enabling secure payments and managing 100+ successful transactions.
- Designed and implemented RESTful APIs; optimized MongoDB queries, reducing average order retrieval time by 30%.
- Streamlined a responsive, cross-platform UI, ensuring seamless experience across desktop and mobile devices.

**AI-Interview Helper Bot** | *React.js, Express, MongoDB, REST API, MediaRecorder API, LLM, STT*   [GitHub](#)

- Enhanced an AI-powered interview platform that generates role-specific questions using LLMs and records candidate video responses with the MediaRecorder API.
- Implemented transcription (STT) and AI-driven evaluation to provide recruiters with skill-based scores, transcripts, and insights.
- Engineered scalable backend with Express MongoDB for managing roles, candidates, responses, and reports.

**Government School Portal (Full-Stack Web App)** | *React, framer motion, Tailwind css, express, vercel, mongo* [view](#)

- Developed a full-stack school portal using React, Tailwind CSS, and Framer Motion (frontend) with Node.js, Express, MongoDB, and Multer (backend).
- Built Home, About, Toppers, Gallery, Admission, and Faculty sections with fully responsive layouts and handled form/file submissions via Multer.
- Enforced frontend and backend on Vercel using CI/CD, optimized performance, and supported new student enrollment of 100+ users.

## CERTIFICATIONS AND ACHIEVEMENTS

- Certified by Hackerrank for problem solving in cpp
- Solved 260+ DSA problems on LeetCode and other platforms.

## POSITIONS OF RESPONSIBILITY

- Abhisarga 2025** | Conducted a technical event during the annual college fest, managing event flow and student participation.
- Student Academic Council (2025–2026)** | Serving as a council member, contributing to academic planning, student support, and coordination between faculty and students.