Shanidhya Kumar

Portfolio   Github   LeetCode   LinkedIn

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SUMMARY

Full-Stack Developer with hands-on experience building secure, scalable web applications using MERN and Next.js. Strong focus on backend systems, authentication, access control, and AI-powered developer tools. Active open-source contributor with solid foundations in data structures and real-world system design.

EDUCATION

Dayananda Sagar College of Engineering, Bangalore   **CGPA: 9.71**
B.E in Computer Science & Engineering (IoT & Cyber Security)   *2023 – 2027(Expected)*

TECHNICAL SKILLS

Languages: C, C++, Python, JavaScript, TypeScript
Frontend: HTML, CSS, React.js, Tailwind CSS, Next.js, Framer Motion, Shadcn/UI
Backend: Node.js, Express.js
Concepts: REST APIs, JWT Authentication, Role-Based Access Control, Secure File Handling, System Design Basics
Databases: MongoDB, SQL
Cloud & Deployment: Firebase, Vercel, Clerk, Appwrite, Prisma ORM, Cloudinary API
Developer Tools: Git, GitHub, Postman, VS Code Extension Development

EXPERIENCE

Open Source Contributor   **Oct 2025**
Hacktoberfest 2025 — Remote
- Contributed 6+ accepted pull requests across multiple open-source repositories, improving frontend UI, backend logic, and documentation quality.
- Collaborated with global maintainers using GitHub workflows, issue tracking, and code reviews.

PROJECTS

SecureShare   **Jan 2026**
Secure File Sharing System   *Next.js, Node.js, MongoDB, JWT*
- Designed and built a secure file-sharing platform with password-protected uploads, expiry-based access, and limited download counts.
- Implemented JWT-based authentication and enforced access constraints at the API layer to prevent unauthorized downloads.
- Architected an end-to-end workflow covering file upload, metadata storage, token validation, expiry handling, and controlled file delivery.

AXIONYX   **2026**
Student Productivity & Academic Management Platform   *Next.js, Node.js, MongoDB, APIs*
- Developed a comprehensive student productivity platform integrating attendance tracking, assignment management, study sessions, career planning, and social features.
- Designed and implemented modular backend services to manage academic data, scheduling, and user workflows within a unified system architecture.

CodeInsight – AI Code Reviewer   **Nov 2025**
VS Code Extension and Web App   *TypeScript, React, Node.js, Express, OpenRouter API*
- Built a VS Code extension enabling AI-powered, real-time code reviews with contextual feedback using LLM APIs.
- Enabled faster developer feedback loops by automating code analysis and review during development.

BioTrace   **Sept 2025**
AI eDNA Analysis Pipeline   *Python, Flask, Machine Learning*
- Developed an AI-driven pipeline to detect and annotate deep-sea taxa from raw environmental DNA reads.
- Applied unsupervised embeddings and clustering techniques to reduce dependency on reference databases.

AlgoFlowX   **Dec 2025**
Algorithm Visualization Platform   *React, JavaScript, Data Structures*
- Created an interactive platform to visualize algorithms such as sorting, searching, and recursion using step-by-step animations.
- Improved conceptual understanding of algorithm flow and time complexity through visual execution.

ACHIEVEMENTS & EXTRACURRICULARS

- **LeetCode:** Solved 700+ problems; Global Rank 62,299.
- **Industrial Visit – Nokia (5G/6G Lab):** Exposure to AI, ML, and next-generation networking.
- **Certifications:** Cisco (Cybersecurity Essentials, Python, JavaScript), Postman API Fundamentals, AI Foundation & Machine Learning.