Ram Krishna

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Professional Summary

Computer Science undergraduate specializing in full-stack development with the MERN stack, TypeScript, and PostgreSQL. Engineered production-grade applications with real-time features, secure authentication, and cloud deployment. Strong foundation in database design, RESTful APIs, and modern web technologies. Solved 175+ DSA problems on LeetCode (Rating: 1500+).

Education

Indian Institute of Information Technology, Nagpur   **Aug 2023 – May 2027**
Bachelor of Technology in Computer Science and Engineering | CGPA: 6.83/10.0 (Till 5th Sem)   *Nagpur, Maharashtra*
- Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Computer Networks, Operating Systems, Software Engineering, Web Technologies

Sanskar Public School   **May 2022**
Higher Secondary Certificate (XII), CBSE | Percentage: 81%   *Gwalior, Madhya Pradesh*

St. Paul's School   **May 2020**
Secondary School Certificate (X), CBSE | Percentage: 88%   *Gwalior, Madhya Pradesh*

Technical Skills

Programming Languages: C, C++, HTML5, CSS3, JavaScript (ES6+), TypeScript, SQL
Frontend Technologies: React.js (Hooks, Context API), Redux, Tailwind CSS, Responsive Design
Backend Technologies: Node.js, Express.js, RESTful APIs, JWT, OAuth 2.0, Middlewares, Serverless Functions
Databases: MongoDB (Mongoose), PostgreSQL, Supabase (Realtime, RLS), MySQL, Drizzle ORM
DevOps and Cloud: Git, GitHub, Docker, Vercel, Cloudinary
Tools: VS Code, Postman, Chrome DevTools, npm/pnpm/yarn, Vite, ESLint, Prettier
Core Concepts: Data Structures and Algorithms, Object-Oriented Programming

Projects

Visitor Management System | GitHub | Deployed Link
Tech Stack: React, TypeScript, Supabase (Auth + Realtime + RLS), Tailwind CSS, Vite
- Developed and maintained a full-stack visitor management system using React, TypeScript, Supabase, and Tailwind CSS, supporting 50+ concurrent active users
- Integrated Supabase Realtime for instant synchronization of visit approvals and status updates via database triggers, achieving a 90% reduction in approval latency from 10 seconds to under 1 second
- Implemented Role-Based Access Control (RBAC) and Row Level Security (RLS) on Supabase backend with JWT implementation, defining access for 3 distinct user roles (Admin, Guard, Host)
- Automated check-in process with QR code verification for contactless entry and automated email notifications, processing 100+ daily visitor entries

Expense Tracker | GitHub | Deployed Link
Tech Stack: React 19, Node.js, Express.js, MongoDB, JWT, Cloudinary, Tailwind CSS, Vercel
- Developed financial tracking application with interactive dashboards, 8+ category-based analytics, and expense visualization using React.js and Chart.js, managing 500+ expense records
- Secured application with JWT refresh tokens, protected routes, and bcrypt password hashing for session management, supporting 100+ registered users
- Integrated Cloudinary API with Multer middleware for profile image upload, cloud storage, and CDN delivery, handling 200+ image uploads with 99% uptime
- Created RESTful API with 15+ endpoints using Express.js and MongoDB featuring Excel export, advanced filters, pagination (20 items per page), and comprehensive error handling

Shortify - URL Shortener | GitHub | Deployed Link
Tech Stack: React, Vite, Node.js, Express.js, PostgreSQL, Drizzle ORM, JWT, nanoid, Zod, Tailwind CSS, Docker, Vercel
- Designed URL shortening service with user authentication and personalized dashboard for managing 200+ URLs with custom or random 6-character short codes using nanoid for collision-resistant identifiers

- Architected PostgreSQL database with Drizzle ORM for type-safe operations and efficient URL mapping, achieving sub-50ms query response times using Docker for local development
- Delivered RESTful API with 10+ endpoints, Zod validation for type-safe request handling, JWT middleware, and seamless redirection logic handling 1000+ redirects daily
- Developed React frontend with Vite, 3 theme options (light/dark/system), toast notifications, and interactive dashboard with copy-to-clipboard functionality for 50+ active users

Achievements and Certifications

Competitive Programming: Solved 180+ Data Structure and Algorithm problems on LeetCode, exhibiting skills in Programming including Graph Algorithms, Trees, Backtracking, and Sliding Window techniques

Data Structures and Algorithms Mastery Course - Abdul Bari (Udemy): Comprehensive 50+ hour certification covering advanced DSA concepts including Algorithm Analysis, Recursion, Sorting and Searching Algorithms, Greedy Methods, Divide and Conquer, and Complexity Theory

Web Development Specialization: Completed full-stack development courses covering React.js, Node.js, Express.js, MongoDB, RESTful API design, secure authentication strategies, and modern JavaScript (ES6+) with hands-on projects

Additional Information

Software Engineering: Proficient in SDLC, Agile methodology, code reviews, and Test-Driven Development principles with focus on writing clean, scalable, and maintainable code

DevOps and Deployment: Experience with Git/GitHub workflows, Docker containerization, and deploying full-stack applications on Vercel with serverless functions and environment configuration

API and Database: Hands-on experience designing RESTful APIs, securing applications with JWT and OAuth, SQL optimization, NoSQL data modeling, and third-party integrations (Cloudinary, Payment Gateways)