Ram Krishna

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Professional Summary

Computer Science undergraduate specializing in **full-stack development** with expertise in the **MERN stack**, TypeScript, and PostgreSQL. Built production-grade applications including a real-time **Visitor Management System** with **Supabase Realtime** and **RBAC**, a secure **Expense Tracker** with **JWT authentication** and **Cloudinary integration**, and a **URL Shortener** with PostgreSQL and Drizzle ORM. Proficient in building **RESTful APIs**, implementing authentication systems, and deploying full-stack solutions on **Vercel**. Strong foundation in **database design**, type-safe development, and **Docker containerization**. Solved **300+ DSA problems** (LeetCode 1500+) with expertise in Dynamic Programming and Graph Algorithms.

Education

Indian Institute of Information Technology, Nagpur   **Aug 2023 – May 2027**
Bachelor of Technology in Computer Science & Engineering | CGPA: 6.64/10.0   *Nagpur, Maharashtra*
– **Relevant Coursework:** Data Structures & 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: JavaScript (ES6+), TypeScript, C++, C, Python, HTML5, CSS3, SQL

Frontend Technologies: React.js (Hooks, Context API, Performance Optimization), Redux (State Management), Tailwind CSS, Responsive Design

Backend Technologies: Node.js, Express.js, RESTful API Design, WebSocket, JWT Authentication, OAuth 2.0, Middleware Architecture, Session Management, Serverless Functions

Databases: MongoDB (Mongoose ODM, Aggregation), PostgreSQL, Supabase (Realtime, RLS), MySQL, Neon Serverless Postgres

DevOps & Cloud: Git, GitHub, Docker, Vercel, Environment Configuration, Cloudinary (CDN, Media Management)

Tools & Platforms: VS Code, Postman (API Testing), Chrome DevTools, npm/yarn, Vite, Babel, ESLint, Prettier

Software Engineering: Data Structures & Algorithms, Object-Oriented Programming (OOP), System Design, SDLC

Soft Skills: Problem Solving, Analytical Thinking, Technical Documentation, Team Collaboration, Communication, Time Management

Projects

Visitor Management System | GitHub | Deployed Link
Tech Stack: React, TypeScript, Supabase (Auth + Realtime + RLS), Tailwind CSS, Vite
– Built **full-stack system** with **role-based access control (RBAC)** and **Row Level Security (RLS)** for Admin, Guard, and Host roles using Supabase backend
– Integrated **Supabase Realtime** for instant synchronization of visit approvals and status updates, reducing approval latency by **90%**
– Implemented **QR code verification** for contactless check-ins and automated email notifications using database triggers

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, **category-based analytics**, and expense visualization using React.js and Chart.js
– Implemented **JWT authentication** with refresh tokens, protected routes, and bcrypt password hashing for secure session management
– Integrated **Cloudinary API** with Multer middleware for profile image upload, cloud storage, and CDN delivery
– Built **RESTful API** with Express.js and MongoDB featuring Excel export, advanced filters, pagination, and 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
– Built **URL shortening service** with **JWT authentication** and personalized dashboard for managing URLs with custom or random short codes using **nanoid** for collision-resistant identifiers
– Architected **PostgreSQL database** with **Drizzle ORM** for type-safe operations and efficient URL mapping using **Docker** for local development

- Implemented **RESTful API** with **Zod validation** for type-safe request handling, JWT middleware, and seamless redirection logic
- Developed **React frontend** with Vite, multi-theme support (light/dark/system), toast notifications, and interactive dashboard with copy-to-clipboard

Achievements & Certifications

Competitive Programming: Solved **300+ DSA problems** across LeetCode (Rating: **1500+**), GeeksforGeeks, and Codeforces with expertise in **Dynamic Programming**, **Graph Algorithms**, **Trees**, **Backtracking**, and **Sliding Window** techniques

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

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

Interview Preparation: Actively following **Striver's A2Z DSA Sheet** (180+ problems completed) and **Blind 75** leetcode patterns for systematic interview preparation with focus on FAANG-level problem solving

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

API & Database: Hands-on experience building **RESTful APIs**, implementing authentication (JWT, OAuth), **SQL optimization**, NoSQL data modeling, and third-party integrations (Cloudinary, Payment Gateways)