

Nishant Sharma

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TECHNICAL SKILLS

Languages: TypeScript, JavaScript, C++, SQL

Frontend: HTML, CSS, EJS, TailwindCSS

Backend: Node.js, Express.js, RESTful API Design

Cloud: AWS (EC2, RDS, S3), Nginx, PM2, Cloudflare, Linux

Databases: PostgreSQL, Prisma ORM, MongoDB, Mongoose

Tools: Git, GitHub Actions(CI/CD), WSL

PROJECTS

VizTube — Video Sharing Infrastructure | [GitHub](#) | [Live](#)

Tech: Node.js, Express, PostgreSQL, Prisma, AWS (EC2/RDS), Nginx, PM2, Cloudflare, GitHub Actions

- Migrated from **MongoDB** to **PostgreSQL** using Prisma ORM to resolve data consistency issues and better manage complex relational features like user subscriptions and video likes.
- **Optimized AWS EC2 production hosting** by configuring Nginx as a reverse proxy and using PM2 process management to maintain high availability within a strict **1GB RAM constraint**.
- **Secured the platform architecture** by implementing a dual-token JWT authentication strategy and routing traffic through Cloudflare to protect against common **XSS, CSRF, and DDoS vulnerabilities**.
- **Automated the deployment lifecycle** by building a custom CI/CD pipeline with GitHub Actions, achieving zero-downtime updates and eliminating manual configuration errors for every code push to production.

BankEase — Banking System Simulation | [GitHub](#)

Tech: C++, Object-Oriented Programming(OOP)

- Developed a **high-performance banking engine** using C++ and OOP principles to handle secure account management, transaction processing, and user authentication through a modular and scalable class structure.
- Implemented **persistent data storage** via binary file handling to ensure financial records are stored securely and remain accessible across different sessions without the risks of plain-text data loss.
- Engineered an efficient file management system achieving **3x faster data operations** compared to standard methods, optimized for rapid searching and updating of thousands of individual user account records.
- Architected the codebase following **SOLID principles**, ensuring that banking logic is decoupled from the interface to allow for seamless feature expansion like interest calculation and transaction history tracking.

CERTIFICATIONS

Microsoft GitHub Foundations | [link](#)

Problem Solving (Intermediate) - HackerRank | [link](#)

Back End Development & APIs - FreeCodeCamp | [link](#)

SQL (Basic) - HackerRank | [link](#)

EDUCATION

S.S. Jain Subodh PG College

Bachelor of Computer Applications

Rambagh, Jaipur

2024 – 2027

KPS Udaan

Grade 12th - Physics, Chemistry, Mathematics - 90.2%

Vidyadhar Nagar, Jaipur

2024

ACHIEVEMENTS

Twice Recommended by SSB for Indian Air Force

- Cleared rigorous 5-day leadership assessment twice - **elite 0.1% selection** from 600,000+ applicants, demonstrating exceptional decision-making under pressure and psychological resilience.

Competitive Programming Excellence

- Solved **300+ algorithmic problems** across [LeetCode](#), [CodeForces](#), and [HackerRank](#), showcasing advanced problem-solving capabilities.