

# Nishant Sharma

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## TECHNICAL SKILLS

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**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

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**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

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**Microsoft GitHub Foundations** | [link](#)

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

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

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

## EDUCATION

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**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

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**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.