

# Avesh Raj Singh

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LinkedIn — GitHub — Portfolio

## SUMMARY

Full-Stack Developer and DevOps Enthusiast with a journey rooted in algorithmic excellence, having solved 200+ problems on LeetCode and GeeksforGeeks. Transitioned from competitive programming to building high-impact platforms, notably winning HackSphere 2K25 for rapid full-stack innovation. Expert in the MERN stack and Next.js, with a focus on integrating AI feedback loops and secure UPI payment systems. Proven leader as Co-founder of BitLinguals, dedicated to bridging the gap between core fundamentals and modern cloud-native deployment.

## TECHNICAL SKILLS

**Languages:** JavaScript, TypeScript, Python, HTML, CSS

**Frameworks/Libraries:** React, Next.js, Node.js, Express.js, Tailwind CSS

**Cloud & DevOps:** AWS (EC2, S3, Lambda, VPC, IAM), Terraform, Ansible, Jenkins

**Databases/Tools:** MongoDB, Firebase, PostgreSQL, Git, GitHub, Docker, Postman

**Core Concepts:** REST APIs, JWT Auth, Service Workers, Payments, AI Integration

## KEY PROJECTS

**typeDev — AI-Powered Performance Platform**  
*Next.js, Node.js, MongoDB, Groq AI, JWT*

October 2025

- Designed a full-stack typing application that utilizes Groq AI to provide personalized real-time user feedback and typing analytics like WPM and accuracy.
- Orchestrated a secure UPI payment gateway that features automated QR generation and administrative CSV reconciliation.
- Hardened application security using Helmet.js and rate limiting while implementing role-based access control via JWT.
- Optimized frontend responsiveness and offline capabilities through Service Workers and local storage caching.

**SITCoders — Community Collaboration Hub**  
*React, Tailwind CSS, Express.js, MongoDB*

Aug 2025

- Spearheaded the development of a responsive user interface, engineering 25+ reusable components to streamline platform functionality.
- Manage complex application states using the React Context API to synchronize authentication and real-time API data.
- Developed comprehensive CRUD operations for resources and user profiles, improving community engagement.

## EDUCATION

**Sityog Institute of Technology**  
Bachelor of Technology in Computer Science & Engineering (CGPA: 7.91) Nov 2022 – Jul 2026  
Aurangabad, Bihar

**Relevant Coursework:** Data Structures & Algorithms, Design & Analysis of Algorithms, Computer Networks, Operating Systems, Object-Oriented Programming, Database Management Systems, Computer Organization & Architecture, Software Engineering.

**Bhupesh Gupt Inter College**  
Intermediate in Science (PCM) 2018 – 2020  
Kaimur, Bihar

## ACHIEVEMENTS & LEADERSHIP

- **Winner, HackSphere 2K25:** Secured first prize (15,000) for excellence in rapid full-stack prototyping.
- **Lead, BitLinguals Coding Club:** Co-founded and mentored a student-led organization of 25+ peers.
- **Competitive Programming:** Successfully solved 200+ problems on LeetCode and GeeksforGeeks.