

# ANSHU RAJ

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## Professional Summary

Full-stack developer who bridges code and creativity—building web experiences that don't just work, but captivate. Specialized in animation-rich interfaces and real-time applications, with 500+ algorithmic problems solved and 20+ production projects deployed. Currently architecting MERN stack applications while exploring AI integration and IoT ecosystems.

## Education

### Bachelor of Technology in Electronics and Communications Engineering

2023 – 2027

Haldia Institute of Technology

Haldia, West Bengal

### Secondary Education (10th & 12th)

2020 – 2022

Holy Cross School, Bokaro Steel City

Jharkhand

## Technical Skills

**Languages:** C++, JavaScript, TypeScript, Python

**Frontend:** React, Next.js, HTML5, CSS3, Tailwind, GSAP, Three.js, Framer Motion

**Backend:** Node.js, Express.js, Socket.io, REST APIs

**Database:** MongoDB, Git/GitHub

**Dev Tools:** VSCode, Cursor, Figma, Postman, Render, Netlify, Vercel

**Soft Skills:** Problem Solving, Team Management, Communication, Research & Development

## Projects

### CodexSpace | MERN, Socket.io, Google Gemini AI | [Live Demo](#)

2025

- Built real-time collaborative IDE with AI code generation, supporting 50+ concurrent users via WebSocket
- Integrated Google Gemini AI with smart rate limiting and retry logic for production-grade reliability
- Implemented WebContainer for in-browser code execution and fully responsive mobile-desktop UI

### SSS API Learning Hub | Vanilla JS, REST APIs, JSONPlaceholder | [Live Demo](#)

2025

- Built interactive API learning platform with 50+ topics, hands-on exercises, and progressive quizzes
- Created viva prep section with 100+ searchable questions and engaging particle animations

### Pinspire | EJS, Node.js, MongoDB, Express | [GitHub](#)

2025

- Built Pinterest-inspired platform with JWT authentication, MongoDB GridFS, and masonry layout

### GameBit Agency | Three.js, GSAP, Locomotive Scroll | [Live Demo](#)

2025

- Created cyberpunk portfolio with 3D helmet model, particle systems, and smooth scroll animations
- mobile-optimized 3D rendering and GPU-accelerated effects

### Uber Clone | MERN Stack, Socket.io, Google Maps API | [GitHub](#)

2025

- Building full-stack ride-sharing app with real-time location tracking and WebSocket-based updates
- Integrating Google Maps API for route calculation, fare estimation, and interactive mapping

### Hyperspace Rush | Three.js, GSAP, WebGL | [Live Demo](#)

2025

- Built 3D tunnel racing game with procedural tracks, difficulty progression, and 60fps mobile controls

## Certifications

### GenAI Powered Data Analytics | Tata iQ, Forage

2025

- Completed AI-powered data analytics simulation with EDA, predictive modeling, and risk assessment
- Designed AI-driven collections strategy incorporating ethical AI and regulatory compliance

### Front-End Software Engineering | Skyscanner, Forage

2026

- Built React web application for travel date selection using Skyscanner's Backpack component library
- Customized application features and ran automated tests to ensure proper rendering

## Experience

### Tech & Media Lead

Jun 2025 – Present

Public Policy and Governance Society (PPGS), Haldia Institute of Technology

Haldia, West Bengal

- Lead media strategy, content scheduling, and cross-functional team coordination for digital campaigns

## Achievements

**Problem Solving:** 500+ DSA problems — 20+ projects with performance focus