

MAYANK KUMAR SINGH

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Summary

Computer Science student with strong full-stack development skills in React, Next.js, Python, and blockchain technologies. Experienced in building production-ready applications with optimized performance, secure authentication systems, and modern deployment pipelines, with a competitive edge demonstrated by 2nd place finish among 200+ teams at Cypher 3.0 Hackathon.

Education

Atria Institute of Technology

Bachelor of Engineering in Computer Science and Engineering

Sep. 2023 – May 2027

Bangalore, India

Experience

LoklBiz

Full Stack Development Intern

Feb. 2025 – Aug. 2025

Bangalore, India

- Built scalable e-commerce platform using Next.js, TypeScript, and Tailwind CSS with responsive design across devices.
- Optimized backend performance reducing API response time by 45% and database query execution by 40% through Redis caching and MongoDB indexing strategies.
- Implemented server-side rendering with Next.js improving page load speed by 35% and enhancing SEO performance.
- Deployed secure authentication flows and Razorpay payment gateway for seamless transactions.
- Followed agile methodologies with sprint planning, code reviews, and CI/CD deployment to production environments.

Projects

BlockParty - GitHub Bounty Platform | *Next.js, TypeScript, Supabase, Clerk, Aptos/Move* | [GitHub](#)

Sep. 2025

- Architected full-stack bounty marketplace connecting organizations with developers through GitHub integration and blockchain rewards.
- Developed complete authentication flow using Clerk with GitHub OAuth enabling seamless repository imports and bounty creation.
- Built RESTful API backend with Next.js API routes and Supabase for managing bounties, pull requests, and user profiles.
- Configured GitHub webhooks monitoring PR merges and automating reward distribution to contributor Aptos wallets.

Purrrfect Learning - AI Education Platform | *Next.js, Python, FastAPI, NextAuth, Manim* | [GitHub](#)

Oct. 2025

- Engineered production-ready full-stack platform transforming PDFs into 7 interactive learning formats with AI model integration.
- Built scalable frontend architecture with Next.js, TypeScript, and Tailwind CSS supporting file uploads up to 500MB.
- Developed Python FastAPI backend with RESTful endpoints for content processing and real-time generation.
- Orchestrated multiple AI models including Manim video generation, MediaPipe face detection, and LLMs for content creation.

Achievements

2nd Place Winner - Cypher 3.0 Hackathon

Oct. 2025

- Secured 2nd place among 200+ competing teams for developing Purrrfect Learning, an AI-powered educational platform.

Technical Skills

Skills: JavaScript, TypeScript, Python, HTML/CSS, Solidity, React.js, Next.js, Tailwind CSS, shadcn/ui, Responsive Design, Node.js, Express.js, FastAPI, RESTful APIs, Next.js API Routes, MongoDB, Supabase, Git, Docker, Vercel, Figma, TensorFlow, Ethereum, Web3, Authentication (JWT, NextAuth), Payment Integration

Interests: Web Development, AI Applications, Blockchain, Competitive Programming, Game Development

Leadership & Extracurricular

CodeClub Lead (Technical Lead)

Sep. 2024 – Present

- Developed official Code Club website using React.js, Tailwind CSS, and GSAP for animations and interactive experience.
- Organized multiple technical events and hackathons with 100+ student participants across various programming domains.
- Led hands-on workshops on web development and game development, mentoring students in full-stack development.