RAJA KUMAR

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EDUCATION

Heritage Institute of Technology — Kolkata, India
Bachelor of Technology YGPA: 8.06 — June 2022 – present

Sadhna Devi Vidyapith School — Samastipur, India
CBSE(Class XII): 91.0 — June 2019 – August 2021

TECHNICAL SKILLS

Languages: C, C++, TypeScript, JavaScript, Solidity, Rust
Frameworks/Libraries: React.js, Next.js, Node.js, Express.js, Tailwind CSS, Foundry
Databases: MongoDB, PostgreSQL
Tools/Platforms: Git, Vercel, Appwrite, Firebase, IPFS, Docker
Blockchain: Solana, Ethereum, Stellar, Web3.js, SPL Token, Anchor
Others: JWT, REST APIs, TinyMCE

EXPERIENCE

Full-Stack Developer Intern, PearlThoughts Pvt. Ltd. — Apr 2025 – Jun 2025

- Built **Schedula**, a doctor appointment platform using **NestJS**, **Next.js**, and **PostgreSQL**.
- Used **NX Monorepo** to manage scalable frontend-backend architecture.
- Developed REST APIs for booking, authentication, and role-based dashboards.
- Deployed features across environments with QA and production configs.

Full-Stack Dev Intern, Sapphire Infocom Pvt. Ltd. — Feb 2025 – Apr 2025

- Engineered **OneBrain**, a full-stack bookmarking application using **MERN stack** (**MongoDB**, **Express.js**, **React**, **Node.js**) and **TypeScript** for scalable development.
- Developed **REST APIs** with **JWT**-based authentication and integrated oEmbed for dynamic link previews, enhancing user experience.
- **Live:** onebrain.vercel.app

PROJECTS

CryptoPayLink: End-to-End Crypto Payment Checkout Platform — Live Demo

- Engineered a full-stack web application using **Next.js**, **Tailwind CSS**, **Node.js**, and **TypeScript** to facilitate seamless crypto payments.
- Integrated blockchain technologies like **Solana Web3.js** and **Ethers.js**, enabling real-time, verifiable payments in **SOL**, **ETH**, **USDT**, and **USDC**.
- Automated the workflow for **transaction verification**, **invoice generation**, and **email notification**, ensuring high accuracy and user satisfaction.
- Applied software engineering best practices including modular design, API development, and CI/CD pipelines to ensure scalability and maintainability.

OptiMedia: A Full-Stack SaaS for Image & Video Optimization — Live Demo

- Developed a full-stack SaaS application using **Next.js**, **Tailwind CSS**, **Node.js**, and **PostgreSQL** for robust backend management.
- Integrated **Cloudinary AI** for intelligent image and video transformation, compression, and delivery.
- Implemented secure **authentication and authorization** flows, ensuring a scalable and user-friendly media pipeline.
- Utilized **RESTful APIs** and cloud-based media workflows to automate real-time optimization and reduce load times.
- Engineered responsive **UI/UX** and deployed a performance-optimized solution using modern **web performance best practices**.

CERTIFICATES

Blockchain and its Applications (NPTEL) — April 2024
CERTIFICATE — Covered blockchain fundamentals, smart contracts, and dApp development.

Introduction to Cybersecurity (CISCO) — October 2023
CERTIFICATE — Gained skills in threat identification, cybersecurity principles, and risk mitigation.

Bitcoin Enterprise (BSV ACADEMY) — May 2024
CERTIFICATE — Learned enterprise use cases of blockchain and cryptocurrency.