

# SANKALP KUMAR

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## Education

Dr. Shyama Prasad Mukherjee University, Ranchi

Bachelors Of Computer Applications

Aug. 2022 - Ongoing

## Work Experience

### Inkhub Tattoos

- Developed and deployed a full-stack admin dashboard using Next.js, hosted on Amazon EC2.
- Integrated and worked with Amazon DynamoDB and Redis to fetch and cache business-critical and large data, which were consistent like orders and sales.
- Built custom dashboards to manage Shopify products (CRUD) and analyze Pinterest boards and pins.
- Created interactive visualizations for tracking revenue, bookings, and product metrics, contributing to better business decisions.

## Technical Skills

Languages: JavaScript, TypeScript, C++, C, HTML, Solidity

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

Developer Tools: VS Code, Git, GitHub, Postman, MongoDB

## Projects

### Hermano - Service providing web app | Next.js, MongoDB, NextAuth, Razorpay, NodeMailer

- Developed a full-stack service marketplace using Next.js and MongoDB, with secure, role-based access for service providers, and customers via **NextAuth**.
- Integrated **Razorpay** for online payments, and implemented webhooks to automatically verify and update payment status on order completion.
- Built a cart system with **localStorage** support for guest users and syncing upon authentication.
- Added reviews and ratings for services. Sent email notifications for important user actions (e.g., order confirmation, status updates, email verification, otp verification) using Nodemailer.
- Applied security best practices, protected API routes, and optimized performance for a seamless user experience.

### Decentralized Crowdfunding Application (Web3) | Solidity, Next.js

- Designed and implemented Solidity smart contracts for secure campaign creation, fund contributions, and goal tracking.
- Deployed and published contracts using Thirdweb, integrating wallet connectivity and streamlined blockchain interactions.
- Built a responsive frontend with Next.js, enabling users to launch campaigns, contribute with crypto, and monitor progress in real time.
- Integrated IPFS-based image storage for decentralized campaign media and metadata.
- Focused on scalability and security by designing contracts with upgradeability patterns and best practices.

### 2D Vector-Style Game | C++, raylib

- Developed a 2D game in C++ using raylib for graphics rendering, input handling, and game loop management.
- Applied Object-Oriented Programming (OOP) principles, including abstraction, inheritance, encapsulation, and polymorphism, to design a modular game architecture.
- Implemented physics-based mechanics such as gravity, jump strength, and collision detection using structured algorithms.
- Built an animation system with sprite sheets and frame control for smooth character movements.
- Ensured the codebase was scalable, maintainable, and extensible for future gameplay features.