

SUBHRANIL RAHA

BTech CSE Graduate | Full Stack Blockchain Developer

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SKILLS

Languages: JavaScript, TypeScript, Java, Solidity, Rust

Technology: React, NextJS, Redux, Node, Spring Boot, Kafka, Express, MongoDB, Mongoose, PostgreSQL, Firebase, Git, Tailwind, Docker, Kubernetes, Hyperledger Fabric

Services: Vercel, Netlify, GitHub, Render, AWS

Testing: Mocha, Chai, Sinon, Jest, Enzyme, JUnit 5, Mockito

EDUCATION

Heritage Institute of Technology (2020-2024)

B.Tech in Computer Science and Engineering

GPA: 8.6

Adamas International School (2005-2020)

Council for Indian School Certificate Examinations

12th Percentage: 88.75%

10th Percentage: 93.2%

PROFESSIONAL EXPERIENCE

Blockchain Instructor Intern @IEM Labs

Sept 2022 - Jun 2023

- Researched blockchain development as an instructor
- Taught Solidity, DeFi, NFTs, ERC tokens, Hardhat, and ethers.js
- Contributed to course structure improvements

Linux Foundation Mentee @Hyperledger

July 2023 - November 2023

- Modified the "Running Locally" section to incorporate the revised procedure for executing the connector on a local environment with Fabric samples test network
- Created an API endpoint to list all chaincodes present on a channel after commitment
- Added integration tests for posting and getting transactions from chaincodes in TransactionIT
- Implemented Endorsement Policy support for approving and committing transactions
- Gained expertise in Hyperledger Fabric Java SDK, Kafka, GitHub Actions, and Bevel Operator

Freelancer and Team Lead @Marslab

Jan 2024 - Oct 2024

- Managed client communication and project development lifecycle
- Led multiple teams through complete project cycles
- Created projects with various tech stacks, including Quantum mobile app (available on Google Play Store)

Blockchain Developer Intern @App Avengers

Nov 2024 - Jan 2025

- Developed applications and DApps according to project requirements
- Built solutions using Rust, Soroban, Stellar SDK, and Freighter API
- Documented research and development findings as directed by CTO

LEADERSHIP & RESPONSIBILITIES

Smart India Hackathon Finalist

Aug 2022 - Sept 2022

- Served as Team Lead and Frontend Developer
- Designed the overall application architecture
- Developed skills in project management, UI/UX design, and teamwork under tight deadlines
- Presented solutions to panel of judges

Google Developer Club HITK Full Stack Lead

Session 2022 - 2023

- Worked as the Full Stack Blockchain Lead
- Organized multiple events and collaborated with other clubs

Geeks United HITK Coordinator

Session 2023 - 2024

- Served as college coding club coordinator
- Arranged hackathons, coding competitions, and technical events

Blockchain Seminar Presenter

April 2023

- Conducted a blockchain seminar with Google Developers Student Club HITK
- Taught blockchain fundamentals to approximately 200 attendees

PROJECTS

Discord Clone

Socket IO | LiveKit | UploadThing | Clerk | Prisma | Shadcn UI

- Implemented real-time messaging with Socket.IO
- Integrated video calling using LiveKit
- Built authentication system with Clerk
- Designed UI components with ShadCN
- Used Next.js for server-side rendering and Prisma ORM with PostgreSQL

Crypto Tracker

WebAPI | Axios | DaisyUI | Tailwind | ContextAPI | Crypto

- Developed web application to fetch and display cryptocurrency data from CoinGecko API
- Implemented pagination and search features for improved user experience
- Integrated carousel to showcase trending crypto projects
- Added theme-switching functionality

Youtube Clone

JWTAuth | Firebase | MongoDB | ExpressJS | Redux | MaterialUI

- Built full-stack YouTube clone with MERN stack
- Implemented JWT authentication with manual and Google sign-in options
- Created complete CRUD operations for video uploads, likes, comments, and subscriptions
- Managed application state with Redux
- Successfully connected frontend and backend hosted on separate servers

GDRIVE 3.0

Solidity | EthersJS | Hardhat | Metamask | IPFS | Alchemy | NodeJS

- Developed decentralized file storage application using Pinata IPFS
- Deployed smart contracts to Sepolia test network using Hardhat
- Built React frontend that interacts with blockchain via ethers.js
- Implemented MetaMask authentication and file sharing between addresses

PRAGMATE

ReactJS | Tailwind | ReactRouter | ReactQuery | ChartJS | AI Chatbot

- Developed frontend and designed UI/UX for Smart India Hackathon 2022 finalist project
- Created platform to assist teachers with student data collection and analysis
- Integrated AI model to predict student outcomes
- Visualized data with ChartJS for enhanced user experience

Enterprise Projects

- **JPA-PostgreSQL-SpringBoot-RestAPI:** Built RESTful API with Spring Boot, JPA ORM, and PostgreSQL
- **Kafka Producer-Consumer:** Implemented message streaming with Spring Boot and Docker
- **TypeScript-Node-MongoDB Authentication:** Created secure backend with TypeScript and MongoDB
- **Dockerized-Express-PostgreSQL-Backend:** Containerized backend application with Docker