

HARSH TYAGI

Full Stack Developer (Web3 and Blockchain)

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India

WORK EXPERIENCE

IoT and Web Developer

Research Project, SMSL BITS Goa

Jan 2023 – Present Goa

- Engineered teaching tools using smart materials (SMA, piezoelectrics and MR fluid) under Prof. Devendra G. Patil, Smart Materials and Structures Laboratory, BITS Pilani Goa
- Developed a robust IoT infrastructure with RaspPi and web technologies to perform experiments online
- Reduced the cost of development of SVP (Smart Vibration Platform) and SVB (Smart Vibration Beam) by 90 percent

Full Stack Developer

alphadevs.dev

July 2023 – Present Remote

- Built a team to learn and work on AI and Blockchain projects.
- Participated in multiple featured Web3 and AI hackathons over span of three months and won 10k+ USD in prizes.
- Worked with decentralized storage, finance and identity infrastructures to build products and prototypes.
- Worked closely on integrating and configuring AI models such as ControlNet, stability-ai/stability-diffusion, llama-2-70b-chat, gpt-3.5-turbo in frontend apps.

Web3 Developer

Internship, Myriad

July 2022 – July 2023 Remote

- Worked on creating fork of DeFi protocols such as Aave, Compound and Liquity
- Developed, tested and deployed solidity smart contracts.
- Built DeFi Lending, Borrowing and yield optimization Dapps on Polygon and EVM compatible chains.

Flutter App Developer

Internship, MASTH Life

June 2022 – July 2022 Remote

- Built chatbot with Dialogflow and integrated it with app
- Collaborated with a team of 9 developers on the project

KEY SKILLS

TypeScript Solidity Ethereum Cryptography
Next JS Node JS Docker AWS
IoT Python Arduino RaspPi

LANGUAGES

English



EDUCATION

Bachelor in Engineering (B.E.) - Mechanical Engineering

BITS PILANI K.K. Birla Goa Campus

Sept 2020 – May 2024 Goa, India

Intermediate

Delhi Public School Ghaziabad (DPSG)


May 2017 – May 2019 Ghaziabad, India

AWARDS

 **WINNER : ETH India 2023**

Organized by ETH Global

Awards: Filecoin Top Unique Project

 **WINNER : DIF Hackathon**

Organized by Decentralized Identity Foundation and TBD

Awards: Third Prize DIF (1500 USD) and Third Prize TBD (1000 USD)

 **WINNER : The Actually Open AI hackathon**

Organized by Arweave and Stability.ai

Awards: 1250 USD

 **WINNER : Encode x NEAR Horizon 2023 Hackathon**

Organized by NEAR Protocol and Encode Club

Awards: Mintbase Bounty (1500 USD)

PROJECTS

CredX

Decentralized Identity and Storage with DIDs, DWNs and VCs

📅 December 2023 - January 2024

- CredX is a platform where users can own their data with Web5, can seamlessly store and share records on decentralized web nodes (DWNs) using decentralized identifiers (DIDs)
- CredX also allows organizations to issue secure verifiable credentials (VCs) to users and a seamless way to verify the credentials through presentation exchange.

🌐 credx-beryl.vercel.app/

HealthX Protocol

Health records management with Web5

📅 November 2023

- HealthX Protocol is a decentralized health record management platform built using web5
- Users can own carry their health history and seamlessly store and share medical records on decentralized web nodes (DWNs) using decentralized identifiers (DIDs).

🌐 0xAlphaDevs/HealthX-DIF-hackathon

🌐 healthx-ivory.vercel.app/

AI NFTs

AI Powered NFT Marketplace

📅 September - October 2023

- AI NFTs is platform that allows artists and AI algorithms to collaborate in the creation of unique NFT artworks.
- Users can create art from text and scribbles using ControlNet AI modal and mint NFTs on NEAR Blockchain.

🌐 0xAlphaDevs/ai-nfts-mintbase

🌐 ai-nfts-sooty.vercel.app

SMSL.online

Research Project to develop IoT Lab for teaching tools SVP and SVB

📅 Jan 2023 - Present

📍 BITS Pilani Goa

- Developed the teaching tools Smart Vibration Platform (SVP) and Smart Vibration Beam (SVB) using smart materials such as SMA, MR fluid and piezoelectrics
- smsl.online is a fully functional IoT platform to conduct experiments and learn about smart materials.
- Wrote undergraduate thesis on "Development of cost-effective teaching tools SVP and SVB"

🌐 smsl.online

🌐 svp.smsl.online

🌐 svb.smsl.online

REFERENCES

Dr. Devendra Gokul Patil

Assistant Professor, BITS Pilani - Goa Campus

🌐 www.bits-pilani.ac.in/goa/devendra-gokul-patil/
