


Amit Kumar Mishra

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 Faridabad, Haryana

Education

B.Tech (Electronics and Communication Engineering)

Faculty of Engineering and Technology, Jamia Millia Islamia

Dec 2020 – Jul 2024

New Delhi, India

Skills

React

Next.js

Node.js

Express.js

Hardhat

Mysql/MariaDB

Solidity

Python

Git & Github

Bash / Zsh

Linux

NPM / Yarn / pnpm

Java

Scraping (BeautifulSoup, requests & selenium)

Coursework

UNDERGRADUATE

- Database Management Systems
- Data Structures and Computer Programming

Professional Experience

Web3 Developer

Freelance | React, Smart Contracts 

Apr 2023 – Jun 2023



- Created a user-friendly interface for a web3 car quartet game using Solidity and React. Allowing players to connect wallets and play against computer opponent.
- Wrote logic for the computer to be able to calculate winning chances for each attribute in the card and select attributes such that it wins against the player. Set up the database for vehicle data and for storing game logs.
- Implemented smart contract for minting and trading the latest context-dependent multi-asset(ERC-5773) and equipable(or nestable) NFTs(ERC-6059) referred to as NFT 2.0.

Frontend Developer

Freelance | Akash Console(Open Source) 

Apr 2023 – Apr 2023


Akash Network - a decentralized cloud platform

- Added a column that reflects the updatable status of a deployment on the network checking if the user deployed it through Akash console only. 
- Cleaning up TSLint warnings generated during website build due to unused variables. 

Full Stack Developer

Freelance | Gatsby, ChakraUI and Supabase

Mar 2023 – Mar 2023

- Created a responsive job board for AI, ML, and Data-science jobs which lists all jobs, allows the posting of new job vacancies, and boosts the SEO of the website. 
- Scraped jobs from various sites using BeautifulSoup and requests library of python and stored results in .json file format which could be easily pushed into databases and also could serve as content for the website.
- Deployed website on Vercel and database on Supabase.

Ethereum Blockchain trainer

VM corporation 

Nov 2022 – Nov 2022

Created learning materials and guided practices which can train a newcomer to become a blockchain developer.

- Familiarised with Ethereum, swarm, whisper, and remix IDE. Introduced to basic terms like Gas fees, Nodes, clients and consensus mechanisms, etc.
- Developed various guided practices from setting up a local test network using Ganache and connecting Metamask for interacting with the network, to creating a private blockchain using geth.
- Enabled them to understand smart contracts' lifecycle, solidity compilation & deployment, and security considerations when writing smart contracts. Creating custom ERC20, ERC721 standard tokens, and a marketplace contract using the Truffle framework.

Projects

Yelp-relived

Restaurant finder with their reviews and price-ranges (MERN stack)

- HomePage** - Lists all the restaurants, aggregated reviews and price range of the restaurant by fetching from the database into card-shaped components. With a form to add a new restaurant to the list.

Courses

TinyML

Harvard (on edx)

Completed first stage of Tiny ML course on Edx. This course is basically about deploying ML models on tiny microcontrollers and using real-time data from sensors to build a more reliable(as built on top of lots of data) and viable(as less resource-consuming) solution.

Penetration Testing: Advanced Web Testing

LinkedIn Learning

Learnt enumerating endpoints of a website by contextual or dictionary-based fuzzing, identifying virtual websites, integrating Burp Suite and sqlmap to enable deep testing of a website for hidden access vectors, directory traversal, escalating HTML injection into a reverse-shell using Metasploit and exploiting CMS.

- **UpdateRestaurantPage** - Allows updating basic information like Name, location and price range of that restaurant.
- **RestaurantDetailsPage** - Lists all the reviews added by various users. Also, allows one to add a new review.

ValueHouse

NFT marketplace to allow creators mint their digital art into NFTs and take the pain of writing smart contracts themselves.



With a total of 4 pages, **HomePage** - Listing all the minted NFTs available for sale in the marketplace,

- **Mint and Sell page** - For quickly uploading any image and listing for selling
- **Creator's Dashboard** - For managing their minted NFTs like pricing or deleting it, etc.
- **User's Collection** - For showing all NFTs created or bought by the user.

Volunteer Open Source Contributions

OpenMS

Software Developer

- Involved in suppressing almost 100+ warnings due to various deprecated functions, methods, and classes in the QT framework(C++) and 
- Solving build errors in the program during compilation from source code. 

KDE

Flatpaks Packager

Contributed to Open Source Community KDE in packaging KDE applications into Flatpaks for Flathub.

Kget 

Krename 

Kompare 

Extra Curricular Activities

CyberSecurity Administrator

Intern at Virtually Testing Foundation

It was an 8-week program where every week I learned about different topics namely - MITRE ATT&CK framework, Vulnerability and Log/SIEM management (Splunk), OSINT, Container Security, Cryptography, Cloud Security, OWASP Top 10 security, and Active directory. I was required to do a demo of some practical skills and create presentations every week on those topics.

Cloud Computing

Successfully completed the 30DaysOfGoogleCloud Program where I learned basic things like deploying VM instances and cloud storage buckets, building a Docker image, doing the analysis of terabytes of data using Bigquery, and more things like leveraging industrial applications using machine learning APIs from Google Cloud like Cloud NLP, OCR, Image analysis for location detection, face detection, Video intelligence, audio to text, etc.,