

Aakash Jain

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TECHNICAL SKILLS

Programming Languages : C/ C++, Python, JavaScript, TypeScript, Solidity, Golang, HTML, CSS, SQL

Technologies and Tools : ReactJS , NodeJS, NextJS, Firebase, MongoDB, Express, Blockchain, Ganache, Pytorch, Docker

KEY PROJECTS

Dark Pattern Detection Project

Jun 2024

- Implemented a dark pattern detection system using **Python libraries** including **Scikit-learn**, **TensorFlow**, **NLTK**, **OpenCV**, and **Matplotlib**.
- Curated and analyzed datasets of over **400** screenshots and **HTML snippets** from websites recognized for employing dark patterns.
- Engineered advanced features, utilizing **image processing** techniques with **OpenCV** and natural language processing methods using **NLTK**, achieving a **15%** improvement in detection accuracy.

Chain Chest - A blockchain based file storage and sharing application

May 2024

- Created **Ethereum-based** smart contracts in **Solidity** and deployed them on the **Ganache** test network.
- Developed a **Digital Signature Model** generating verification and **signing keys** to authorize signatures.
- Utilized the **Pinata API** to upload files to IPFS, obtaining **IPFS hashes** for secure and **decentralized file management**.

Chatblock - A blockchain based conversational payments application

Mar 2024

- Integrated conversational interface in the form of a **chatbot** using **Gemini API**.
- Users can conveniently initiate transactions using **natural language commands** or interactions.
- Integrated the **Neucron API** to seamlessly incorporate **blockchain transactions** into the application.
- Leveraged **Firebase** for robust **database management**, ensuring data integrity and security

EXPERIENCE

Bad Business Inc

Remote

Backend Developer

Jun - Aug, 2024

- Developed and maintained scalable web applications using **Node.js** and **Express.js**.
- Working with cross-functional teams to integrate **MongoDB** for efficient data management.
- Implementing **RESTful APIs** and using **Redis** for caching to enhance application performance.

EDUCATION

Netaji Subhas University Of Technology

New Delhi, India

BTech Electrical Engineering

2022-2026

- Relevant Courses** - Computer Programming, Data Structures and Algorithms, Database Management System, Engineering Analysis and Design

ACHIEVEMENTS

- Winner** of the **Blockchain Hackathon** held at **IIT Delhi**, organized in collaboration with Timechain Labs from 29-31 March 2024.
- 1st runner** up among 250+ teams of the **Code Cubicle hackathon** conducted by Geek Room from 15-19 May 2024
- Attained an **International Rank of 96** and **National Rank of 9th** in the International Mathematics Olympiad (**IMO**) organized by the Science Olympiad Foundation (**SOF**).
- Awarded Scholar for **Academic Excellence** for **5** consecutive years | [Ryan International School]
- Secured **2nd** place in Stratazenith- A **Game Theory** competition held at **IIT Delhi** during Rendezvous 2023

POSITION OF RESPONSIBILITY

- Co-Head** at **Indian Game Theory Society**, NSUT
- Executive Committee Member** at **Juno**- The Photography club, NSUT