Chirag Agarwal

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EDUCATION

BITS Pilani   **Goa, India**
B.E. (Hons.), Electrical and Electronics Engineering   *Aug 2019 – May 2023*

WORK EXPERIENCE

Pay3 *Bangalore, India*
Software Engineer   *Jan 2023 - PRESENT*

- Designed and implemented a user-friendly checkout solution for **NFT**s (**ERC721/ERC1155**) and **ERC20** tokens, providing a seamless payment experience with options to pay in fiat currency or various ERC20 tokens
- Developed backend **microservices** using NodeJS for integrating various DEXs and on/off ramp partners
- Created **webhooks** to capture and store transaction statuses and data across 9+ payment partners
- Developed an **SDK** tailored for Web2 users, enabling seamless social, email, and phone **login** options. Integrated Metamask, Coinbase, and WalletConnect to support multi-wallet functionality for Web3 login experiences
- Created and tested **smart contracts** and scripts for token swapping via **Uniswap Router** and batch payments

Yushu Excellence Technologies Pvt. Ltd
Blockchain Developer Intern   *Aug 2022 - Oct 2022*

- Implemented a **UniswapV2** fork on Cube Network, a new Layer1, developed smart contracts that utilize Uniswap's Core & Router contracts. Implemented swap and liquidity features on the protocol's frontend using **Ethers.js**
- Authored a detailed explainer on **fractional NFTs**, aimed at enhancing understanding within the team

Kubera Capital
Web3 Research Analyst Intern   *Nov 2021 - Feb 2022*

- Conducted extensive research on **DeFi** protocols in the Web3 ecosystem, explored projects on Polkadot & Kusama, and deepened insights into investment opportunities in that ecosystem
- Monitored a diverse portfolio of over 20 projects to identify investment opportunities amid market fluctuations

TECHNICAL SKILLS

Programming: JavaScript, C++, Node.js, React.js, Next.js, HTML, CSS
Blockchain: Ethereum, Solidity, Hardhat, Ethers.js, OpenZeppelin, Chainlink Oracles, ERC20, ERC721, ERC1155

ACHIEVEMENT

- **Box Protocol - Winner at ETHforAll Hackathon** 🔗
  - Developed an easy, self-custodial platform for buying, selling and creating **tokenized** crypto portfolios
  - Awarded **Best Project** by Chainlink Labs among 430 global submissions organized by Devfolio and ETHIndia

PROJECTS

- **CommuneIn** 🔗
  - **ETHIndia 2023** hackathon project, enabling users to verify citizenship with Aadhaar using **zk-proofs**
  - Implemented secure user verification through **passkey** registration, enhancing trust and security
  - Created an exclusive platform targeted for Indians, fostering engagement in the Web3 ecosystem
- **Batch Payments**
  - Developed a Solidity smart contract to facilitate batch payments in ETH, focusing on optimizing **gas efficiency** during simultaneous transfers to multiple recipient addresses
  - Implemented comprehensive test cases to ensure the reliability and functionality of the smart contract
- **Integration of IoT - Thesis**
  - Integrated IoT and blockchain technologies to address security and trust issues in centralized IoT systems
  - Utilized **blockchain oracles** for secure data exchange between smart contracts and IoT devices
- **Mr. Gadget - Generative NFT Collection** 🔗
  - Developed a collection of 241 unique NFTs on Polygon with metadata on IPFS, leveraging image processing and metadata handling libraries, and achieved a **37% unique ownership** rate upon selling out the collection

INTERESTS

Trekking, Photography 🔗 **, Bouldering, Simulator Racing, Cricket**