Rahul Roy

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PROFESSIONAL EXPERIENCE

REDSCALE — Dec 2023 – Present
Developer — *Remote*
- Developed and launched **5+ web applications** and **3 native Android apps** for small businesses and NGOs, increasing their online revenue by over 200%.
- **Assisted** in the **organic growth** of 10+ Instagram pages, boosting follower counts by 50% and **engagement** rates by 30%.

Nokia — March 2023 – June 2023
Research Intern — *Remote*
- Applied **Machine Learning** models like **LSTM, GNN**, and **GRU** to forecast 14-day throughput values. Managed model selection, training, and validation.
- Developed a user-friendly **GUI** with **Flask** for intuitive interaction by 50+ users.

System Consultant Information India (SCII) — March 2023 – Sept 2023
Research and Project Intern — *Remote*
- Researched **blockchain** usability for **authentication** and document storage, boosting security protocols by 40%.
- Developed a **private blockchain** network with **Hyperledger Besu**, eliminating all transaction fees, and created 5+ frontend interfaces using **ReactJS** and **Tailwind CSS**.

BOBDAO — Dec 2022 – Dec 2023
Co-founder — *Bengaluru*
- Organized a **web3 hackathon** on **Devfolio** with **Polygon, Solana, Filecoin, and Shardeum**. Managed a 10 Lakh prize pool and secured sponsorships.
- Attracted 200+ top-tier participants, showcasing skills in **marketing, budget management, and financial oversight.**

PROJECTS

In-Depth Analysis of Indian Startup Funding | *Python, NumPy, Pandas* — June 2023
- Performed an in-depth analysis of **Indian startup funding** (Jan 2015 - Aug 2017) by preprocessing large datasets with **Python** (NumPy, Pandas) to clean and aggregate data, and used **Matplotlib** to visualize funding patterns across cities, industries, and **investors.**

NFT Secure | *Hyperledger Besu, ReactJS, CSS* — Aug 2023
- Conducted extensive research on **blockchain** usability for **authentication** and **decentralized document storage**; findings led to the creation of a private **Hyperledger Besu** network, eliminating gas fees and enhancing transaction efficiency for 25+ users.

TECHNICAL SKILLS

Programming and Development Languages: C++, Python, ReactJS, React Native, NextJS, Tailwind CSS, ExpressJS, MongoDB, MySQL, Solidity, Hyperledger BESU .

Version Control and Other Tools: GitHub, Slack, Power BI, Pandas, NumPy, Jupyter

PUBLICATIONS

Tokenizing Real Estate in India Using Blockchain Technology: Work in progress. This paper proposes using the Polygon blockchain to create a scalable, secure real estate tokenization platform in India, addressing regulatory, stakeholder, and technology adoption challenges.

Decentralized document storage with NFT Authentication using various Blockchains : Work in progress.

ACHIEVEMENTS

Got selected for **Web 3.0 Conference**, 2023 held in **Goa**. Connected and interacted with big shots of **blockchain** space and learned a lot about community building and technology.

EDUCATION

R V College of Engineering — Bengaluru, KA
Bachelor of Engineering in Electronics and Telecommunication — *2021 – 2025*