



Pursuing a **Minor in Entrepreneurship** offered by **Desai Sethi School of Entrepreneurship**, IIT Bombay

PROFESSIONAL EXPERIENCE

Blockchain Intern | MultiversX Foundation

(Apr '25-June '25)

*Interned at **xAlliance**, an initiative by MultiversX Foundation fostering blockchain talent for decentralized innovation*

- Spearheaded the end-to-end development of **xGrowth** as a **Project Manager**, a **Web3**-native platform designed to aggregate Earn, Grant, and Job opportunities across the **MultiversX** ecosystem for easier discovery and engagement
- Contributed to platform **growth** and key user outreach via documentation, onboarding flows, and ecosystem analysis
- Managed sprint timelines, team coordination, and overall contributions in an agile, community-driven build process
- Authored Intern Intel **blog series** reflecting insights, technical takeaways, and challenges from xAlliance and MultiversX

HACKATHONS

EquiBlock | ETH Online 2025

(Oct '25)

Top 8 Winner — Lit Protocol Partner Prize | Synthetic Equity Trading Protocol

- Built a synthetic equity protocol creating **EquiAssets**, collateralized tokens tracking global equity prices for **trading**
- Developed Solidity contracts for minting, burning, collateral checks, and automated liquidations via **Vincent** engine
- Integrated **Pyth** Network equity price oracles for accurate, tamper-resistant, and real-time pricing of synthetic assets
- Built a Next.js + TypeScript frontend enabling seamless wallet flows, intuitive dashboards, and 24/7 asset trading

TheBlocks | TriHacker Tournament 2025

(Dec '25)

Adversarial-Resilient Settlement Protocol | Hosted by The Residency with participants from different IITs

- Built an adversarial settlement **protocol** ensuring fair, commit-reveal ordering and a **secure** multi-block settlement
- Developed Solidity contracts with **dual-oracle** validation, strict invariants, and a reliable multi-state settlement flow
- Implemented MEV, oracle, reorg, and timeout-DoS defenses using **FIFO** queues, deviation checks, and auto-refunds

TECHNICAL PROJECTS

xGrowth | Blockchain Internship Project

(Jun '25- Present)

Product Lead | Intern Project under xAlliance (MultiversX Foundation)

- Led xGrowth as Project Manager, developing a platform aggregating diverse opportunities in the MultiversX ecosystem
- Integrated **APIs** (e.g., PeerMe Bounties) for live data display; managed authentication flows and content modularization
- Led cross-functional collaboration to drive feature scoping, **UI** refinement, prioritization, and overall **UX** improvements

Yield Bank Protocol | Self Learning Project

(May '25- Jun '25)

Self-initiated DeFi project to explore decentralized lending mechanics and smart contract design on Ethereum

- Developed a Solidity-based vault inspired by **Aave**, supporting **ERC-20** deposits, withdrawals, and balance tracking
- Integrated deposit and withdrawal logic with balance state tracking, pause control, and in modular contract structure
- Built and tested locally using **Hardhat** development framework; emphasized **DeFi** logic and robust vault accounting

NFT Access Protocol | Self Learning Project

(July '25)

Explored token-gated access control via ERC-721 to restrict premium function usage in Solidity smart contracts

- Developed MembershipNFT and AccessGate contracts with **ERC-721** standard, modifiers, and **URI**-based metadata
- Enabled exclusive feature access using ownership checks, enforcing on-chain restrictions via balance verification logic
- Built and **tested** locally with Hardhat; gained exposure to **NFT** standards, gating patterns, and the Solidity design

Cross-Chain Bridge Mockup | Self Learning Project

(July '25)

Explored cross-chain token transfers and event-driven architecture using Solidity and Ethers.js

- Built bridge contracts to lock **ERC-20** tokens and emit transfer events for relayer-based syncing and external validation
- Simulated secure **mint-burn bridging** flow across mock EVM chains using access modifiers, event logs, and parsing
- Verified end-to-end bridging logic with full transfer cycles, balance proofs, and on-chain overall state consistency checks

Mobile App for NSS IITB | Technical Project

(Dec '24)

Web Department | National Service Scheme (NSS) | IIT Bombay

- Built a secure, location-based **attendance system** for NSS IITB, featuring account and role-based access control
- Integrated geofencing technology to validate check-ins, significantly improving **authenticity** and proxy attendance
- Designed an intuitive **UI** with automated **location checks**, improving volunteer interaction and system reliability

KEY PROJECTS

Blockchains | Summer of Science 2024

(May '24-July '24)

Maths and Physics Club | Institute Technical Council | IIT Bombay

- **Researched** and analyzed blockchain fundamentals, exploring distributed ledgers, consensus, and smart contract logic
- Examined **BFT**, **PBFT**, slasher rule, and hash functions through a focused, high-depth reading and reflection project
- Studied blockchain applications in **data security**, transparency, and decentralized systems across real-world scenarios

Drone Development | Course Project

(Jan '24-Apr '24)

Guide: Prof Joseph John, Prof S.V Prabhu | Course: Makerspace | IIT Bombay

- Collaborated in a **6-member** team to build a **quadcopter**; designed frame using **AutoCAD** and 3D-printed components
- Programmed drone flight logic on **Arduino** using **PID** control; integrated key sensors and tuned motor response
- Successfully tested via **Android-based** remote; resolved hardware, calibration, and connectivity issues for stable flight

Interior Design Business Plan | Course Project

(Aug '24-Nov '24)

Guide: Prof Anuradha Narasimhan | Course: Introduction to Entrepreneurship | IIT Bombay

- Co-developed a business plan in an **8-member** team for an **AI-based** platform targeting accessible home design in India
- Conducted 30+ customer interviews and expert consultations to validate **product-market fit** and refine pain points
- Outlined a lean **business model** including target users, value proposition, revenue streams, and go-to-market strategy
- Presented findings with market sizing, **competitive analysis**, and financials; received constructive academic feedback

POSITIONS OF RESPONSIBILITY

Web Activity Associate | National Service Scheme, IIT Bombay

(May '24- Apr '25)

Student organization at IIT Bombay focused on social impact and community development

- Collaborated in a 4-member team to ideate, develop, and maintain dynamic web platforms for multiple NSS sub-departments, ensuring smooth operations, timely updates, proactive communication, and feature improvements
- Developed a responsive NSS sub-departments website using **HTML**, **CSS**, and **JavaScript**, enhancing its usability
- Managed the NSS website and built a **certificate generator** using PHP for eco-cleanup drives, simplifying logistics
- Led development of a **Flutter-based** mobile app to streamline attendance, and event management for 200+ volunteers

Events and PR Coordinator | The Entrepreneurship Cell, IIT Bombay

(May '24- Feb '25)

Asia's Largest Entrepreneurship promoting student body recognized by NEN | Patronage from UNESCO

- Partnered with 50+ strategic stakeholders, enabling global networking and startup funding exceeding **INR 50M+**
- Mentored **100+** Campus Ambassadors from 50+ colleges nationwide, driving outreach, engagement, program expansion, and strategic alignment; guided them in establishing E-Cell presence and entrepreneurial culture on their campuses
- Partnered with 30+ GCC colleges in Eureka! GCC to promote innovation through Asia's leading **B-model** competition
- Strengthened ties with **media**, **government**, and **investors**, expanding E-Cell's presence and Eureka! GCC's reach

TECHNICAL SKILLS

Programming Languages	C++, Python, Tailwind CSS, PHP, JavaScript, TypeScript, LaTeX
Python Libraries	NumPy, Matplotlib, Pandas, Random, Scikit-learn
Software	Fusion360, Git, MS Excel, Canva, AutoCAD
Blockchain Stack	Solidity, Rust, Next.js, Ethers.js, Web3.js

COURSES UNDERTAKEN

Mathematics & CS	AI and Data Science, Computer Programming and Utilization, Linear Algebra, Calculus, Differential Equations, Numerical Methods for Materials Engineers
Material Science	Structure of Materials, Thermodynamics of Materials, Process Kinetics and Transport, Electrochemistry of Materials and its Applications
Labs	Computation Lab, Sensors and Measurements Lab, Electrochemistry and Corrosion Lab, Chemistry Lab, Physics Lab, Makerspace Lab, Design Thinking for Innovation
Entrepreneurship	Introduction to Entrepreneurship, Field Immersion for Researchers and Entrepreneurs, Managing Technological Innovation, Intellectual Property for Entrepreneurs

EXTRACURRICULARS

National Service Scheme | IIT Bombay

- Taught Class 11 JEE students in Mathematics under Dhruva, an initiative by NSS IITB actively supporting underprivileged students from diverse backgrounds across the entire nation through the structured academic mentoring
- Recognized with a **special mention** of the **year** for exceptional dedication and impact in the Dhruva initiative of NSS

Miscellaneous

- Mentored **8** students in the Summer of Science on core **blockchain** topics such as consensus algorithms and security
- Guided **17** mentees in a 6-week Seasons of Code project, building an Ethereum-based crowdfunding platform in solidity
- Designed and **prototyped** a compact home-cleaning solution during a key design thinking lab, focusing on feasibility
- Visited an industrial facility during a materials science course; closely observed workflows, and processing techniques