

Pranav Naik

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EDUCATION

Indiana University Bloomington

Bloomington, IN Aug 2024 – May 2026

- **Master of Science in Computer Science** (GPA- 3.72)

TECHNICAL SKILLS

- **Programming Languages:** Python, TypeScript, JavaScript, Solidity, Golang, Ruby, SQL
- **Full-Stack:** React, Next.js, Node.js, Express.js, PostgreSQL, MongoDB, GraphQL, Ruby on Rails, Kafka
- **DevOps & Security:** Docker, Kubernetes, Git, AWS, Firebase, Linux, Wireshark, Grafana
- **Web3:** Hardhat, Foundry, Ethers.js, IPFS

PROFESSIONAL EXPERIENCE

Research Engineer Intern

Nokia Bell Labs

Remote(HQ. Murray Hill) May 2025 – July 2025

- Researched **Web 3.0** integration in telecommunications, designing **payment** and **cross-chain interoperability** solutions to address enterprise privacy challenges, resulting in a filed Intellectual Property Right (IPR).
- Architected **secure, automated frameworks** for trust management across heterogeneous blockchain networks, with findings accepted for publication in the upcoming **IEEE BCCA'2025 conference**.
- Implemented **smart contract protocols** to create socio-economic network policies and to build incentive mechanisms for participation in distributed telecommunications infrastructure.

Software Engineer

Altizon Systems Pvt. Ltd.

Pune, Maharashtra March 2021 – March 2024

- **Led Energy and Water Consumption Project** for Pernod Ricard India (PRI) across multiple manufacturing plants, managing both **IoT and Non-IoT data integration**.
- Designed and developed IoT dashboards and applications using **React, Ruby on Rails, and MongoDB**, enhancing front-end user experience and building scalable back-end systems for data-intensive manufacturing use cases.
- Provided ongoing technical support for 30+ manufacturing plants, collaborating closely with plant operators to resolve real-time production issues.
- Acted as a **rotating infrastructure/support engineer**, managing deployments, debugging production issues, demonstrating adaptability and ownership in a startup environment.

Fellow

Ethereum Foundation

Pune, Maharashtra Feb 2021 – May 2021

- Selected for highly competitive Web3 Development Fellowship (20 chosen from 2,000+ applicants).
- Built decentralized applications (dApps) and contributed to the Ethereum developer ecosystem under guidance from industry mentors, strengthening expertise in Web3 development

PROJECTS

Tsunami Protocol

Next.js, React.js, Hardhat, Solidity, zkSNARKs

- Developed **privacy-preserving token streaming protocol** using **zkSNARK technology** for confidential transactions.
- Implemented **UTXO-based system** with **encrypted stream management** and revoke proofs for early termination.

RICKdiculous Streams

Next.js, React.js, PostgreSQL, Hardhat, Solidity

- Created **NFT fractionalization platform** enabling liquidity extraction while maintaining ownership.
- Integrated **AAVE** and **Superfluid protocols** for **cross-chain lending mechanisms** and automated liquidation.
- Implemented **automated liquidation system** with **partial ownership** transfer for default protection.
- Enhanced **price discovery** mechanisms beyond traditional NFT marketplace limitations.

ACHIEVEMENTS

- **Certifications:** Intermediate Technical Interview Prep (Advanced), Intermediate Cybersecurity
- **Hackathon Winnings:** EthGlobal, Devfolio, Devpost, Encond Club, Various Hackathons (15+ tracks won)