

# AYASH BERA

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## EDUCATION

### Techno Main Salt Lake

*Bachelor of Technology in Information Technology*

2023 – present

Kolkata, India

## Technical Skills

**Languages:** Solidity, Python, C, JavaScript, TypeScript, SQL

**Technologies:** Git, Linux, Docker, Bash, IPFS, HSM

**Libraries/Frameworks:** Web3.js, Next.js, ChainLink, Ethers.js, i18n.js, leaflet.js, React, Express.js, FastAPI, Node.js

## Experience

### L1Beat

Founding member

#### Full Stack Developer:

Sep 2025 - Present

- Currently developing an RSS feed system integrated with Substack blog infrastructure, processing 500+ daily content updates for automated distribution
- Designed first pipeline to automatically update 30+ configuration files within 2 minutes whenever new ACPs are published to the foundation repository
- Implemented second pipeline that monitors Substack blog posts and triggers real-time updates.
- Architected automated workflows ensuring 99.9% uptime for seamless content synchronization

### PayZoll - Global Blockchain Payroll Platform

Frontend, Smart Contracts

#### Research Analyst:

Feb - Apr 2025

- Designed security system using PostgreSQL with pgcrypto and HSM for encrypted storage
- Architected smart contract infrastructure including factory, registry, verification, and paymaster contracts
- Designed cross-chain functionality using Stargate protocol with fiat off-ramping support

#### Full Stack Developer:

Mar - Jul 2025

- Developed complete frontend using Next.js and TypeScript for global payroll management interface
- Built comprehensive Solidity smart contract system with cross-chain token transfers via Stargate protocol
- Integrated Chainlink price feeds for real-time currency conversion and role-based access control systems

## Projects

### Socrates | Python, NLP, Machine Learning | Repository

- Developed an AI-powered question-answering system that analyzes complex queries and provides structured responses using natural language processing techniques.
- Implemented machine learning algorithms for text classification and semantic analysis, achieving 85% accuracy in contextual understanding.

### Inkei | Flask, React, MongoDB, Gemini API, Socket.IO, Redis | Repository

- Built an AI-powered WorkOS with advanced pipelining architecture using Redis message queues to orchestrate 5+ automated workflows for SSDLC-compliant development.
- Implemented RAG (Retrieval-Augmented Generation) system that processes uploaded project documents and generates context-aware sprint plans with 90% accuracy.
- Designed message queuing system with Redis that automatically triggers GitHub bot reviews and website updates, processing 200+ events daily with 99% reliability.
- Created real-time pipeline that analyzes pull requests, flags anti-patterns, and queues LLM-generated fixes using asynchronous task processing.

### Judicio | Node.js, JavaScript, MongoDB, Leaflet.js, i18n | Repository

- Grand Finalist project at Smart India Hackathon 2023 - built automated bail management system for Indian judiciary with interactive lawyer location mapping and multi-language support.

### Predictora | Solidity, Web3.js, Ethereum, Chai | Repository

- Finalist at ETHIndia 2024 - developed prediction market on Citrea blockchain with game-theoretic reputation system rewarding contrarian predictions up to 5x with dynamic fee structures.

## Accomplishments

- Grand Finalist at **Smart India Hackathon 2024**. Our team worked on the problem statement SIH1702
- Won the third place bounty for 1inch at **Eth Global New Delhi**.
- organized an 36 hour 100 person offline hackathon for avalanche called **Team1Hack Kolkata**.
- Finalist at **ETHIndia 2024**.