



# Agnish Bhattacharya

Full Stack Developer | Distributed Systems

B.Tech

Electronics & Communication Engineering

Indian Institute of Information Technology, Ranchi

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## EDUCATION

### Indian Institute of Information Technology Ranchi

B.Tech in Electronics and Communication Engineering

2023 – 2027

GPA: 8.8 / 10.0

### Holy Cross School

ISC (Class XII), Percentage: 95%

2011 – 2023

Kolkata, India

## TECHNICAL SKILLS

Languages	Rust, C++, TypeScript, JavaScript, Python, SQL (PostgreSQL), HTML/CSS
Frameworks	React, Next.js, Node.js, Express, Tailwind CSS, Framer Motion, GSAP
Cloud & Databases	AWS (EC2, S3), Docker, Nginx, PostgreSQL, MongoDB, Redis, Prisma ORM
Specialized	Distributed Systems, Web3 (Solana/SocialFi), System Design, Data Structures
Developer Tools	Git, CI/CD Pipelines, WebSockets, REST APIs, Turborepo

## EXPERIENCE

### Draviya

Founding Engineer

Oct 2025 – Present

Ranchi, India

- Architected end-to-end **financial infrastructure** using **Node.js** and **PostgreSQL** for a creator-focused SocialFi platform, managing data for **100+ simulated creators**.
- Optimized valuation pipelines and transaction APIs to process **10k+ concurrent trades** with **sub-200ms latency**.
- Spearheaded the integration of **KYC/AML compliance flows** and automated audit logging, ensuring high data integrity for all simulated financial transactions.

### House of Geeks, IIIT Ranchi

Software Development Wing Lead

Sep 2025 – Present

Ranchi, India

- Managed a cross-functional team of **15+ developers** to deliver production-grade web applications using Agile methodologies and modern tech stacks.
- Orchestrated weekly code reviews and **System Design workshops**, resulting in a **30% reduction in production bugs**.
- Technical lead for a **200+ participant national hackathon**, overseeing platform infrastructure and technical evaluation criteria.

## PROJECTS

### ScrapeBot (Web Scraper Workflow Builder) | GitHub | Live

React · Node.js · Headless Browsers · OpenAI API · Webhooks

2025

- Engineered a **no-code web scraping platform** featuring a visual drag-and-drop editor to orchestrate headless browser automation and dynamic DOM navigation.
- Integrated **OpenAI APIs** (secured via AES-256-CBC) to dynamically parse complex web pages into clean JSON payloads, supporting automated **webhook delivery**.

### Omniverse (2D Multiplayer Virtual World) | GitHub

React · Node.js · WebSockets · Turborepo · Phaser · Recoil

2025

- Architected a real-time **2D multiplayer virtual world** using a **Turborepo monorepo**, managing a **React** frontend and a **Node.js WebSocket** backend.
- Integrated the **Phaser** game engine and **Recoil** for global state management, optimizing bi-directional communication to ensure **sub-50ms message delivery** for concurrent users.

### Proof of Purchase (Web3 Loyalty Platform) | GitHub

React · Node.js · Solana · Anchor (Rust) · SPL Tokens · NFTs

2025

- Architected a full-stack decentralized application on the **Solana devnet** using **React**, **TypeScript**, and **Anchor** to manage brand loyalty campaigns.
- Developed smart contracts with **Custom PDAs** to securely store immutable proof-of-purchase records and automatically distribute **SPL tokens** and progressive **NFTs** upon verified scans.

## ACHIEVEMENTS

**Hackathon Winner** — 1<sup>st</sup> Place, Space Day Hackathon; Winner, Smart India Hackathon (Internal Selection).

**Competitive Programming** — CodeChef 3 Star; Codeforces Specialist; 150+ problems solved on LeetCode.