

Aayush Giri

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PROFESSIONAL SUMMARY

Engineer sitting at the intersection of integrations and developer relations, with 4+ years shipping **SDKs, developer tooling**, and partner integrations across EVM and non-EVM. Hands-on experience with account abstraction, **DEXes**, and **state channels**. Deep protocol level work on Starknet and Aztec including **open-source SDK** contributions, **Remix plugins**, **MCP servers**, and **CLI tooling (1,200+ downloads in 3 weeks)**. Contributor to starknet.go SDK and **co-author of SNIP-27** and coordinator across four independent client teams. Owns end-to-end developer experience from protocol integration to documentation and onboarding. 15+ conference talks globally, 12+ hackathons judged.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Node.js, Python, Golang, Rust, Solidity, SQL, C, C++, Markdown, Cairo, Noir
Web3: EtherJS, Hardhat, Foundry, Openzeppelin, IPFS, Uniswap, Chainlink, Aave, LayerZero, DePIN, EIPs/SNIPs
DevRel: Developer Advocacy, SDK Development, Technical Writing, API Documentation, Video Production, Developer Onboarding, Workshop Facilitation, Ecosystem Research, Community Management, DX Optimization, Content Strategy
Frameworks & Tools: NodeJS, ReactJS, NextJS, ExpressJS, Vocs, Docusaurus, OpenAPI/Swagger, Git, Docker, Linux
Databases: MongoDB, PostgreSQL, SQLite, Redis

EXPERIENCE

Nethermind

Mar. 2024 – Present

Senior Developer Relations Engineer (United Kingdom, Remote)

Apr. 2025 – Present

- Spearheading **Aztec ecosystem scoping**, conducting tooling gap analysis, defining success metrics, shipping DevEx tooling including a [devnet faucet](#), building the **Remix IDE plugin for Aztec** to eliminate setup friction, and producing reports on Aztec developer tooling priorities that shape the ecosystem development roadmap.
- Owned [Starknet All Core Devs Full Node Calls](#) end-to-end, covering agenda curation, cross-client coordination across four independent client teams (Juno, Pathfinder, Papyrus, Madara), and call moderation achieving **600+ live average viewership**. Co-authored [SNIP-27](#), created video tutorials, blog posts, and sample apps optimized for **AI coding agent workflows**.
- Architected and scaled Nethermind's **Developer Relations program from scratch**, owning end-to-end developer documentation across 5+ Ethereum-aligned products ([AuditAgent](#), [Agent4Arena](#), [starknet.go](#), [Voyager](#) queryable on-chain data explorer with indexed Starknet state, [World-ID Bridge](#)) using Docusaurus and Vocs, managing Markdown-based content pipelines via Git with contributions from open-source community members.
- Drove **cross-ecosystem developer activation** through deep-dive presentations on [Surge](#) rollout architecture and hands-on workshops at 6+ tier-1 conferences, authoring enterprise-grade SDK guides and quickstarts driving **60% developer engagement growth** with the activation funnel instrumented to surface and solve adoption blockers.

Developer Relations Engineer (United Kingdom, Remote)

Jun. 2024 – Apr. 2025

- Built comprehensive **developer onboarding funnels** through documentation, quickstarts, and protocol-level guides for Starknet and Cairo, tracking cohort activation metrics and iterating on docs from drop-off data. Established partnerships with **Exercism and Node Guardians** and executed university outreach across Asia and Europe.
- Delivered 10+ specialized **TypeScript/Node.js workshops and SDK education sessions** on CairoVM and zero-knowledge proof solutions, providing direct pair-programming and solutions architecture support for **500+ developers** building production applications.
- Established **closed-loop product feedback cycles**, tracking activation metrics and adoption funnel data to surface prioritized product insights shaping developer tooling roadmaps. Managed developer support across GitHub, Discord, and Telegram, establishing response standards for issue resolution.

Research Engineer (United Kingdom, Remote)

Mar. 2024 – Jun. 2024

- Researched cryptographic primitives and built a **LatticeFold PoC**, using FRI-based zero-knowledge proofs to achieve **3.9x throughput optimization**. Implemented PoC in Rust by converting cryptographic primitives for polynomials within a lattice-based cryptography system. Conducted comparative benchmarking against **HyperNova** across multiple proof systems and parameter sets to validate performance.
- Separately devised an AVS for Starknet's Solidity verifier integrating with EigenLayer along an **optimistic off-chain verification** incentivization system, **optimizing transaction costs by 5x**. Designed stake-based slashing for invalid proof submissions and a reward distribution model to align operator incentives with protocol security.

Spheron Network

Sep. 2023 – Jan. 2024

Developer Relations Engineer (Singapore, Remote)

- Owned the **full developer onboarding funnel** for Spheron's decentralized compute and storage infrastructure, authoring SDK documentation, quickstarts, and troubleshooting guides from scratch, **reducing inbound support tickets by 40%** and measurably improving time-to-first-integration.

- Ran **hackathons and developer activations end-to-end** across Web3Reinvent India Tour 2023, engaging **1,000+ developers** with live workshops and hands-on builds, tracking participant conversion into active Spheron integrations and feeding structured feedback loops to product and engineering.
- Shipped 10+ demo repositories, technical blog posts, and video tutorials showcasing Spheron integrations with partner protocols, driving **110% organic developer portal traffic growth** and a **20% lift in NPM SDK downloads**.
- Contributed directly to the compute/storage SDK, extending CLI tooling, and improving API surface usability based on developer feedback to bridge product gaps from support channel analysis.

Jio Platforms Ltd.

May 2023 – July 2023

Software Development Engineer Intern (Mumbai, India)

- Worked on **JioMeet** and developed a modular, abstract React API handling framework to enhance code organization and maintainability, resolving 60+ production bugs including legacy WebRTC issues and creating a data-driven analytics dashboard to measure API framework performance.
- Contributed to the integration of 20+ screen reader accessibility features, empowering visually impaired users to navigate the platform seamlessly.

Clamp

Jan. 2023 – May 2023

Founding Blockchain Developer (Mumbai, Remote)

- Developed the entire blockchain backend for an Ethereum-based crypto index platform enabling diversified on-chain portfolio management, integrating **ERC-4337 account abstraction** to simplify user onboarding and self-custody.
- Integrated **UniswapV3** liquidity and **Chainlink** as primary on-chain price infrastructure for real-time asset pricing across **7+ EVM chains**, with fuzz and invariant testing across the integration surface for contract security.

Rize Labs

Sep. 2022 – Dec. 2022

Blockchain Developer Intern (Singapore, Remote)

- Co-developed biometrically-secured ERC-4337 smart wallets and built a React.JS frontend driving a **20% engagement boost**. Co-authored product documentation that drove a **30% increase in developer onboarding**.

PROJECTS

NitroGuard SDK [↗](#) | *TypeScript, ERC-7824, Viem, Zod, React*

March 2026

- Built and published **NitroGuard**, a production-grade TypeScript SDK for Yellow Network's state channel protocol (**ERC-7824**), extending nitrolite's raw primitives with a full state machine, automatic dispute protection, pluggable persistence adapters, and typed protocols with Zod validation. Shipped React hooks, Next.js App Router support, and end-to-end documentation to minimize integration friction from install to first trade. **Ongoing development.**

Starknet MCP Server [↗](#) | *TypeScript, MCP Protocol, JSON-RPC, AI Agent Tooling*

May 2025

- Built a **Model Context Protocol (MCP) server** with 20+ tools bridging AI coding agents with Starknet on-chain data (token queries, contract reads, swaps, wallet operations), shipped as an **AI-assisted onboarding accelerator** enabling Cursor and Claude users to interact with Starknet without leaving their IDE.

Faucet Terminal [↗](#) | *Golang, Docker, npm*

Jan. 2026

- Built an open-source CLI tool for requesting testnet tokens on Sepolia and Starknet Sepolia directly from the terminal, featuring SHA-256 proof-of-work challenge verification, IP-based rate limiting, address validation, and JSON output mode, achieving **1,200+ downloads in the first 3 weeks** with zero marketing spend.

BFV Homomorphic Order Matching Engine [↗](#) | *Rust, Homomorphic Encryption*

May 2024

- Implemented a Rust-based privacy-preserving order matching engine using BFV homomorphic encryption, including 2048-bit RSA order encryption, homomorphic computations, and secure matching, demonstrating practical viability of homomorphic cryptography in financial trading protocols.

AWARDS

Winner - Celo Tooling Track @ETHGlobal Taipei 2025 | [Built MCP framework for Celo ecosystem](#)

Runner-up - 1inch Track @ETHGlobal Prague 2025 | [Developed VectorPlus DeFi optimization solution](#)

Best Innovation Award @ETHGlobal Tokyo 2023 | [Secured sponsorship prizes from Bunzz, Polygon, and Scroll](#)

SPEAKING, JUDGING & DEVELOPER COMMUNITY LEADERSHIP

Conference Talks/Workshops (15+): [ETHBelgrade](#) (Surge Architecture), [ETHTaipei](#) (Surge Deep-Dive), [ETHDam](#) (Surge Workshop), [ETHDenver](#) Builders Showcase, [StarkSpace Bangkok](#), [Starknet Roadshows](#), [Web3Reinvent India Tour](#)

Hackathon Judging (12+): [ETHBelgrade Finals](#), [Starknet Reignite](#), [ETHGlobal Trifecta](#), [Agentic Ethereum](#), [ETHGlobal Bangkok/SF/Singapore](#), [ETHOnline 2024](#), [StarkSpace Bangkok](#)

Mentoring & Developer Advocacy: [ETHDenver Hacker House](#), [Starknet HackerHouse India & Bangkok](#), [ETHIndia](#)

EDUCATION

Indian Institute of Technology (IIT)

Dhanbad, Jharkhand

Bachelor of Technology in Electronics & Communication Engineering