SAHIL WASNIK

+91 8956769368 ◇ Pune, India
04syee@gmail.com ◇ linkedin.com/in/sahilwasnik ◇ github.com/0xSY3 ◇ x.com/0xsy3

PROFILE

Software engineer with 4+ years of experience building backend, platform, and full-stack systems across Web3 and AI infrastructure. Strong in TypeScript, backend development, API and SDK design, system design, distributed systems concepts, service discovery, and cloud-native development. Experience working with modular services, deployment automation, CI/CD, containerized infrastructure, and developer tooling. At Zynd AI, contribute to autonomous-agent infrastructure including TypeScript SDKs, identity and service discovery, registries, reputation, and agent-to-agent communication. Previously worked on Ethereum Layer 2 infrastructure and rollup deployment systems at Tokamak Network. Additional background in cybersecurity, cryptography, and distributed protocols.

EXPERIENCE

Senior Research Engineer Mar 2026 – Present
Zynd AI *Remote*

- Contribute to the engineering of **agent infrastructure and developer tooling**, including the Zynd TypeScript Agent SDK used for agent registration, discovery, invocation, and network interaction.
- Design and implement **AgentDNS**, a federated identity and service-discovery layer using Ed25519 identities and bidirectional handle verification.
- Build components of the agent **registry and discovery layer**, combining capability-indexed discovery with reputation mechanisms for selecting trustworthy agents.
- Contribute to **A2A communication and x402 payment infrastructure**, enabling autonomous agents to coordinate and exchange value without human intervention.
- Work across API, SDK, identity, discovery, and execution layers with an emphasis on modular architecture, interoperability, and developer experience.
- Research and prototype integrations between autonomous-agent systems, decentralized identity, and EVM execution environments.

Blockchain Engineer Dec 2024 – Mar 2026
Tokamak Network *Remote*

- Worked on the infrastructure behind the **Tokamak Rollup Hub (TRH)**, a platform for provisioning and operating application-specific Ethereum Layer 2 rollups.
- Built and integrated backend services and tooling across the **rollup deployment lifecycle**, including provisioning, configuration, deployment validation, monitoring, and cleanup.
- Worked with containerized and cloud-oriented infrastructure to automate deployment workflows and reduce manual operational steps.
- Contributed to **system design and architecture discussions** around platform services, rollup lifecycle management, integrations, and developer workflows.
- Performed **end-to-end testing and system validation** across rollup components, bridges, monitoring, and platform integrations.
- Improved platform reliability and developer experience through configuration validation, deployment workflows, operational tooling, documentation, and debugging.
- Collaborated asynchronously with an international engineering team across architecture, implementation, testing, and production deployment.

Full-Stack Blockchain Developer (Contract) Apr 2025 – Nov 2025
Spredd Markets *Remote*

- Built backend and application components for a prediction-market platform, working across application logic, APIs, blockchain integrations, and execution flows.
- Implemented cross-protocol integrations and aggregation logic across multiple prediction-market systems.
- Worked on application architecture for high-throughput markets, including appchain and Layer 2 scaling approaches.
- Contributed to backend workflows involving asynchronous execution, external protocol integrations, and on-chain settlement.

Protocol Engineer & Co-Founder Jan 2025 – Jun 2025
ShillTube *Remote*

- Co-founded and engineered an application combining backend services, smart contracts, tokenomics, and DeFi primitives.
- Designed and implemented smart contracts with emphasis on gas efficiency, correctness, and protocol safety.
- Built backend logic connecting application interactions with on-chain execution and economic flows.

Web3 Protocol Developer Jul 2023 – Sep 2023
MLH Fellowship – NEAR Protocol *Remote*

- Developed Rust smart contracts under mentorship from NEAR Protocol engineers.
- Worked with concepts related to **sharded blockchain architecture, distributed execution, and protocol-level system design**.
- Contributed to a hackathon-winning project that progressed toward a funded startup.

Security Researcher Feb 2023 – Mar 2024
Hacktify Cyber Security *Remote*

- Performed web application, API, infrastructure, and smart-contract security assessments.
- Conducted vulnerability research and security testing across application and infrastructure layers.

TECHNICAL SKILLS

- **Languages:** TypeScript, JavaScript, Python, Go, Rust, Solidity
- **Backend & APIs:** Node.js, REST APIs, gRPC, SDK Design, API Design, Microservices, Event-Driven Systems
- **Databases & Messaging:** PostgreSQL, Redis, Kafka
- **Cloud & Infrastructure:** AWS, Docker, Kubernetes, Terraform, GitHub Actions, CI/CD, Deployment Automation
- **Systems & Architecture:** System Design, Distributed Systems, Service Discovery, Identity Systems, Registries, Reliability, Monitoring, Modular Architecture
- **Frontend:** React, Next.js, Viem, Wagmi, Ethers.js
- **Web3 & Distributed Protocols:** Ethereum, Optimistic Rollups, ZK Rollups, OP Stack, Polygon CDK, Layer 2 Infrastructure, Bridges, Sequencers
- **Smart Contracts & Security:** Foundry, Hardhat, Gas Optimization, Smart Contract Auditing, Web/API Security
- **Cryptography:** zkSNARKs, Circom, Halo2, ZK-EVM Fundamentals, Ed25519

SELECTED PROJECTS

Dust Protocol [GitHub] 2025

- Private finance protocol exploring stealth transfers and privacy swaps for privacy-preserving on-chain payments.

- **Technologies:** Solidity, Privacy, Stealth

CreativeIP [GitHub] 2024

- Built an on-chain IP registration and licensing application using Story Protocol, with cross-chain payments and verification layers.
- **Technologies:** Solidity, Story Protocol, Cross-chain

FlareScanAI [GitHub] 2024

- AI-powered cross-chain explorer for Flare, supporting transaction search, data-feed insights, and on-chain analytics.
- **Technologies:** Flare, TypeScript, AI

Arbitrum Stylus Guardian [GitHub] 2024

- Built an AI-based analysis tool for Rust smart contracts on Arbitrum Stylus, with vulnerability detection and optimization suggestions.
- **Technologies:** Rust, Stylus, AI

MNT DEV AI [GitHub] 2024

- Developer tooling for Layer 2 smart-contract analysis, gas optimization, and security insights on Mantle Network.
- **Technologies:** Mantle, TypeScript, Layer 2, Security

TypeScript SDK [GitHub] 2025 – Present

- TypeScript SDK and REST API providing client interfaces for on-chain identity, discovery, and registration.
- **Technologies:** TypeScript, REST APIs

ACHIEVEMENTS

- Winner at 15+ Web3 hackathons across ecosystems including ETHGlobal, Mantle, and Optimism
- MLH Fellowship alumnus – NEAR Protocol
- Designed and deployed a live on-chain agent registry and discovery protocol on an EVM agentic L1 testnet

EDUCATION

Bachelor of Engineering in Computer Science, Savitribai Phule Pune University (SPPU) 2021 – 2025