

# Sid Verma

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## Senior Full-Stack Engineer / Platform Engineer / Infrastructure Architect

10+ years building products, developer infrastructure, distributed systems, and internal platforms.

## Skills

### Core Strengths

- End-to-end system design and development (**Product** → **Backend+Frontend** → **Infra**)
- Scalable backend & API architecture
- Internal platforms, automation & developer tooling
- Cloud & bare-metal infrastructure
- Cost, reliability & performance optimization
- Remote collaboration & technical leadership

### Primary Technologies

- **Languages:** Python, Go, JavaScript/TypeScript, C++, Java, Rust
- **Backend:** Django, Flask, Node.js, REST APIs, gRPC, GraphQL, Microservices, Distributed Systems
- **Frontend:** React, Vue.js, Next.js, D3.js, HTML/CSS/Vanilla JS
- **Infra:** Docker, Kubernetes, Terraform, Ansible, CI/CD
- **Cloud:** AWS, GCP, OpenStack, DigitalOcean
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis
- **Systems:** Linux, Networking, System Administration

## Experience

### Independent Consultant / Fractional CTO (2024 - Present)

*Serendipity Arts Festival, India Foundation for the Arts, Ecological Restoration Alliance, Digital Futures Lab, shepherd.com, March work, Maker's Asylum*

- Designed roadmaps, led technical strategy and execution for early-stage companies and non-profits as a **consulting CTO and senior engineer+architect**, managing teams of 1-5.
- **Reduced long-standing tech debt** while stabilizing business-critical systems - freeing up support time.
- Built interactive **knowledge platforms** as commissioned projects and generative installations.
- Designed large-scale data ingestion and processing pipelines with high **purpose-to-cost efficiency**.
- Delivered **end-to-end production systems** with minimal overhead and high reliability.
- Performed **technical training, consultations and documentation** for teams and organizations.
- Directed the execution of technical infrastructure in immersive theatrical installations.

**Primary tech:** C++ (Embedded), Python (Flask, Django, TouchDesigner), JavaScript (Node.js, Velo), Ansible, GLSL, Odo

### Senior Full Stack Engineer > Opencraft (2020 - 21, 2023 - 24)

A fully remote consultancy that delivered managed services, custom solutions, and upstream **open-source** contributions.

- Architected and built core platform components for large-scale OpenEdX deployments used by global clients.
- Designed and maintained cloud-agnostic infrastructure across **AWS, GCP, OpenStack, and bare-metal** environments.
- Reduced operational overhead by building **internal tooling** for provisioning, deployment, and monitoring
- Led **hiring, onboarding, and technical mentoring** in a fully remote, distributed team.
- Improved delivery reliability through better **sprint planning processes** and custom internal tools.
- Worked with the OSS community in improving the core platform. Example PR : [\[Link\]](#)

**Primary tech:** Python (Django, Flask), React, Ansible, Terraform, OpenStack, AWS, GCP

### Full Stack Engineer > Shortform, Solar Accounts, McLaren College (2020 - 22)

- Built REST API backends in Python and Node.js.
- Converted design mockups into production Vue.js applications.
- Improved AWS infrastructure reliability and cost efficiency.
- Integrated **end-to-end encryption** for secure financial data handling.
- Provided ongoing maintenance and support for production systems.

**Primary tech:** JavaScript (Node.js, Vue.js), Python (Django), Ansible, Java

### Instructor & Platform Developer > McLaren College (2020 - 21)

- Designed and **taught courses** in Programming, Web Development, Dart, and JavaScript.
- Built web-based classroom management tools.
- Developed backend systems for grading, feedback, and scoring workflows.

**Primary tech:** JavaScript, Dart

### Full Stack Engineer > Tower Research Capital (2017 - 19)

Worked on internal platforms managing global high-frequency trading infrastructure. Built secure monitoring and alerting platforms

- Designed and developed internal EC2-like provisional systems for physical and virtual servers.
- Led infrastructure visualization tooling for physical and logical systems.
- Built a platform for organization-wide logging, monitoring, and alerting.
- Redesigned automation frameworks for extensibility and reuse.
- Reduced operational latency in the organization through process automation.
- Achieved 2x-10x performance improvements in critical APIs.
- Built multiple internal microservices and platforms from scratch.

**Primary tech:** Go, Python (Django), Vue.js, React, Terraform, Kubernetes, PostgreSQL, Neo4J, Kafka, Elasticsearch

### Full Stack Engineer > Hello English (2015 - 17)

- Designed and built a high-performance social feed serving 50M+ users.
- Developed a chatbot platform and templating language for interactive language learning.
- Built multi-platform on-device speech recognition and grading systems for Indian accents.
- Introduced CI/CD pipelines for automated testing, deployment, and rollback.
- Created frameworks for offline Electron apps and PWAs.

**Primary tech:** Python (Flask), JavaScript (jQuery, Node.js), AWS, Android, Java, C++

### Founding Engineer > Tickertape (2015 - 16)

- Built the original Stock Screener product used by 800K+ users today.
- Designed UI, backend, data pipelines, and integrations.
- Created internal libraries for REST and SOAP API integration.

**Primary tech:** Node.js

## Education

### Jaypee University of Engineering and Technology (2012 - 16)

B.Tech, Computer Science and Engineering

## How I Work

- Value written communication and clear ownership.
- Clear communication about priorities, goals and incentives.
- Shared knowledge and documentation across teams.