# Sid Verma

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**Senior Full-Stack & Platform Engineer** with 10+ years of experience building scalable and stable products, internal platforms, and complex systems across SaaS, fintech, education and media.

I like working on systems end-to-end – including product design, engineering, architecture and reliability. I specialize in building good backends.

I also care about building systems that are simple, resilient, and economically efficient, and teams that can move fast without breaking production.

## Skills

### Core Strengths

- End-to-end system design (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

- Backend: **Python**, **Go**, **Javascript/TS**, **C++**
- Frontend: **React**, **Vue.js**, **Next.JS**
- Infra: **Docker**, **Terraform**, **Ansible**
- Cloud: **AWS**, **GCP**, **OpenStack**, **DigitalOcean**
- etc: **Networks**, **SQL**, **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.
- Designed large-scale data ingestion and processing pipelines with high cost efficiency.
- Reduced long-standing tech debt while stabilizing business-critical systems.
- Built interactive knowledge platforms and embedded generative installations.
- Delivered production systems end-to-end with minimal overhead and high reliability.
- Performed technical training, consultations and documentation for teams and organizations.

### 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]**

### 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.

### 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.

### 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.

### 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.

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

- Built the original Stock Screener product used by 200K+ users.
- Designed UI, backend, data pipelines, and integrations.
- Created internal libraries for REST and SOAP API integration.

## Education

### Jaypee University of Engineering and Technology (201216)

B.Tech, Computer Science and Engineering

## How I Work

- Prefer small, high-trust remote teams.
- Value written communication and clear ownership.
- Optimize for maintainability over cleverness.
- Enjoy building both product features and the systems behind them.