HARSH SHARMA

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SUMMARY

Full-stack engineer shipping TypeScript/Next.js products end-to-end. At Ususals.ai, delivered the complete Character Cloning feature — CRUD backend, streamed creation UX, and canvas generation across image, video, and voice modalities with credit accounting. Google Summer of Code 2025 contributor with 30+ merged PRs across Microsoft VS Code, pySBOL3, SBOL-Utilities, and Anomaly Opencode. Targeting full-stack and software engineering roles that pair product velocity with systems depth.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, Python, Lua, Bash
Frontend	React, Next.js (App & Pages Router), Tailwind CSS, shadcn/ui, Redux, Electron.js
Backend	Node.js, Bun, PostgreSQL, Prisma, MongoDB, MySQL, Redis, Supabase, Sanity
Infra/DevOps	Docker, Docker Compose, Kubernetes, Caddy, GitHub Actions, Prometheus, Grafana, AWS (Fargate, S3), Oracle Cloud
Practices	REST APIs, WebSockets, JWT auth, streaming UI, monorepos (Turborepo), CI/CD

EXPERIENCE

DevOps Engineer - Ususals.ai
Jan 2026 - April 2026

- Shipped end-to-end Character Cloning feature in TypeScript/Next.js — CRUD backend, profile-data generation, media management, and streamed creation UX with real-time progress.
- Implemented character-aware canvas generation across 3 modalities (image, video, voice) with credit accounting and AI prompt orchestration tied to Prisma/PostgreSQL data models.
- Composed voice-cloning lifecycle with sample generation, retry, update, and cleanup; integrated character assets into canvas nodes and sidebars for image/video/voice workflows.
- Delivered a Characterfy node that rewrites arbitrary text in a character's voice, composing character context with generation prompts.
- Automated zero-manual-deploy CI/CD across 2 repos (labs, auth) with GitHub Actions path-filtered parallel jobs, SHA-tagged Docker builds with layer caching, and health-check auto-rollback.
- Architected production topology on a single VPS with 4 isolated Docker Compose stacks fronted by Caddy TLS reverse proxy, serving 4 frontends and 2 backends; instrumented with Prometheus and Grafana.

Software Developer Intern - CladLabs (YC Backed)
Dec 2025 - Jan 2026

- Shipped Pricing, Download, and Landing pages for the marketing site, including the interactive IDE component embedded on the landing page, in TypeScript, Next.js, and Tailwind CSS.
- Fixed analytics tracking across Supabase and PostHog, closing instrumentation gaps in user-event pipelines.
- Resolved AI Chat Panel rendering bug, integrated LinkedIn into mini-browser mode, and debugged Claude Code path-detection in the Electron-based IDE.

Google Summer of Code 2025 Contributor - NRNB
Jun 2025 - Nov 2025

- Merged 18 PRs into pySBOL3 (Synthetic Biology Open Language Python library) — encoding fixes, dead-code removal, and modernized dict literals across the codebase.
- Built IDT API testing harness, DNA complexity scoring, and attachment-object conversion for SBOL standards across 10 merged PRs in SBOL-Utilities.
- Authored Python tooling and CI workflows adopted by the SynBioDex community.

PROJECTS

Reactless - React from scratch with fibers and reconciliation
TypeScript, React, Bun
https://github.com/GeneCodeSavvy/reactless

- Implemented createElement, virtual DOM diffing, fiber architecture, and concurrent rendering mode to internalize React's reactive model end-to-end.

Tradeless - CFD Crypto Trading Simulator
TypeScript, Next.js, Redis, WebSocket, Turborepo
https://github.com/GeneCodeSavvy/tradeless

- Streamed real-time order-book and price feeds over WebSockets with Redis pub/sub across a Turborepo monorepo.
- Delivered JWT auth, trade execution with $5,000 virtual starting balance, and P&L tracking.

Verceless - Vercel-style Deployment Platform
AWS Fargate, S3, Redis, Caddy
https://vercel.harsh-dev.xyz

- Orchestrated per-deploy Fargate build containers, S3-backed artifact storage, and Redis-streamed build logs with automated TLS via Caddy on-demand certificates.

OPEN SOURCE CONTRIBUTIONS

30+ merged PRs across Microsoft VS Code, SynBioDex, and Anomaly Opencode.

Synthetic Biology Open Language (SynBioDex) - 28 PRs
Python, CI/CD
Merged 18 PRs in pySBOL3 core library and 10 PRs in SBOL-Utilities — encoding fixes, IDT API testing, DNA complexity scoring, and attachment-object conversion.

Microsoft VS Code - 2 PRs
TypeScript, Electron.js
Prevented import folding for location-based file opens; fixed chat-in-editor command issues.

Anomaly Opencode - 2 PRs
TypeScript, Agent Systems
Fixed Homebrew upgrade issues; enhanced file validation with magic-byte checks.

EDUCATION

Bachelor of Technology in Biotechnology
2020 - 2024
Sinhgad College of Engineering, Pune

CERTIFICATIONS

- Google Summer of Code 2025 — Google (May 2025)
- Next.js App Router Fundamentals — Vercel
- Next.js Page Router Fundamentals — Vercel