M. Saim Shafique

AI Engineer | Open Source Contributor

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SUMMARY

AI Engineer and Computer Science student building developer tools for AI coding-agent evaluation and testing infrastructure. Writes debugging tasks, automated verifiers, and task specifications for frontier AI coding models at Shipd by Datacurve and AfterQuery Experts. Publishes open-source TypeScript tooling, including the SkillCheck npm CLI and the Chronos deterministic-testing library, and builds React/Next.js/TypeScript web applications for 20+ freelance clients.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, C++, HTML5, CSS3
Frontend: React, Next.js, Tailwind CSS, Shadcn UI, Framer Motion, TanStack Query, Zustand
Backend & Data: Node.js, Express.js, FastAPI, PostgreSQL, MongoDB, Supabase, Drizzle ORM, REST APIs, WebSockets, Redis
Testing & Tooling: Vitest, automated verifiers, deterministic simulation testing, npm publishing, GitHub Actions (CI/CD)
AI & Evaluation: NVIDIA NIM, Google Gemini API, LLM evaluation, prompt engineering
Other: Git, Linux, Vercel, Figma, Cloudflare R2

EXPERIENCE

AfterQuery Experts — Software Engineering Contributor *Remote | Aug 2026 – Present*

- Write debugging and coding tasks in Python for the Odyssey project, each packaged with a working reference solution and an automated verifier that checks agent output against expected behavior, to train and benchmark frontier AI coding models.

Shipd by Datacurve — Software Engineering Contributor *Remote | Mar 2026 – July 2026*

- Design intentionally broken codebases and automated test verifiers for the Terminus track, writing task specifications precise enough to separate correct fixes from partial ones when benchmarking coding agents.
- Author long-horizon engineering tasks on real open-source repositories for the Olympus track, feeding DeepSWE, Datacurve's benchmark for frontier coding agents.
- Selected into Shipd's vetted contributor pool of 14,000+ engineers across 40+ countries; submissions are graded by automated test suites and human review.

Muhammad Labs LTD — Frontend Developer (Part-time) *Remote | Jun 2025 – Sep 2025*

- Fixed and maintained Muhammad Labs' company website across private repositories, building responsive React/TypeScript interfaces and improving cross-browser compatibility.

Self-Employed — Freelance Developer & Open-Source Contributor *Remote | Mar 2022 – Present*

- Deliver React, Next.js, and TypeScript web applications for 10+ clients, scoping technical requirements, building responsive UIs and state management with Zustand/TanStack Query, and implementing REST APIs on Node.js/Express with PostgreSQL.
- Delivered a full site audit, PRD, and animated design-system blueprint for a Gulf-region ISO/cybersecurity consulting firm's WordPress-to-modern-stack rebuild.
- Maintain open-source developer tooling: published the @sx4im/skillcheck CLI to npm and contributed 12 agent skills to antigravity-awesome-skills, an open-source collection of 900+ skills for Claude Code, Cursor, and Antigravity.

PROJECTS

SkillCheck | ***TypeScript, Node.js, Next.js, React, Vitest*** *Demo:* skillcheck.page | *GitHub:* github.com/sx4im/skillcheck

- Built and published an open-source CLI that A/B tests AI-agent skill files through blind-graded trials, returning a HELPS, PLACEBO, or HARMS verdict from bootstrap confidence intervals; published to npm with a live leaderboard site, backed by 140 automated tests and 84%/85% statement/function coverage gates in CI.

Bimo | ***JavaScript, Python, Flask, Supabase, NVIDIA API*** *Demo:* bimo.qzz.io | *GitHub:* github.com/sx4im/BIMO

- Built a multimodal AI chatbot with text and image generation across three model tiers (Aeon, Stanza, Nexos) running through a single NVIDIA API integration.
- Added document intelligence for Word, PDF, and image uploads, plus voice input and a live voice assistant; Supabase handles authentication and conversation storage, with the backend deployed on Render.

Chronos | ***TypeScript, Node.js, Vitest, React*** *GitHub:* github.com/sx4im/chronos

- Built a deterministic simulation-testing library for Node.js/TypeScript with a simulated network, a Vitest-native API, and a time-travel Inspector; the Raft-lite example checks safety invariants across 2,000 simulated seeds of chaos (drops, partitions, crashes), with CI enforcing the determinism guarantee on every push.

InkSolver | ***Next.js 15, TypeScript, tldraw, PostgreSQL, GEMINI API*** *Demo:* inksolver.vercel.app | *GitHub:* github.com/sx4im/InkSolver

- Built an AI whiteboard that solves STEM problems from handwriting: a vision model reads freehand equations, circuits, and chemistry on an infinite tldraw canvas and streams step-by-step LaTeX solutions live via NVIDIA NIM.
- Verifies every solution symbolically through a Python/FastAPI/SymPy microservice that auto-retries on a mismatch, backed by a 23-check smoke suite, Playwright end-to-end tests, and CI on every push.

EDUCATION

University of the Punjab, Lahore | *B.S. Computer Science* *Sep 2025 – Dec 2029 (expected)*

Punjab Group of Colleges, Hafizabad | *FSc Pre-Engineering* *Sep 2022 – Dec 2024*

CERTIFICATIONS

MongoDB Associate Developer (MongoDB, 2026)
Google AI Essentials (Coursera, 2025)
OCI AI Foundations Associate (Oracle, 2025)