

FARHAN SHAIKH

Computer Science Engineer • AI & Cybersecurity Developer

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GitHub: [@YTxFSGAMERz](https://github.com/YTxFSGAMERz) (64+ Repos)

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Portfolio: ytxfsgamerz.github.io

PROFESSIONAL SUMMARY

Computer Science Engineer specializing in Offensive Security (VAPT), NASA Planetary Mission Engineering, Local-First AI & Autonomous Agents, Quantitative Systems (GPU VTK / NVENC 120 FPS), and Low-Level Systems Engineering (Rust / Linux eBPF / Windows Kernel). NASA Space Apps Challenge 2026 Developer, Smart India Hackathon (SIH 2026) Team Lead, author of published Rust package on crates.io (bdstorage), and active open-source contributor with 64+ repositories.

CORE TECHNICAL ARSENAL

Offensive Security:	Kali Linux, VAPT, Burp Suite Pro, Nmap, RapidOCR Sub-Span Redaction, CVSS v3.1 Deterministic Math, eBPF Kernel Probes, Threat Intelligence, OSINT
AI & Neural Agents:	Google Gemma 4 (Local Ollama), Claude & Gemini APIs, PyTorch, LangChain, Multimodal Vision & OCR, Vernacular NLP, Autonomous Scraping Swarms
Systems & Low-Level:	Python 3.11+, C#, C++, TypeScript, Rust (CAS Engine on crates.io), PyVista/VTK, PowerShell 7+, DISM Image Servicing, Linux Kernel Hooks, Docker, Git, CI/CD
Web & 3D Graphics:	React 19, FastAPI, Next.js, Vite, Tailwind CSS v4, Three.js & WebGL 3D Planetary HUDs, GSAP, Lenis, REST/GraphQL
Quantitative Analysis:	Statistical Econometrics, 4D Alpha Surface Waveforms, Lo-MacKinlay Variance Ratio, GARCH(1,1) Volatility Modeling, statsmodels

FEATURED ENGINEERING BUILDS & FLAGSHIP SYSTEMS

Mars-GeoSpectra — Martian EVA Mission Planning Workstation	NASA SPACE APPS '26	GitHub ↗
Martian surface exploration & EVA planning workstation for Jezero Crater integrating 6 NASA datasets (MOLA elevation, CRISM mineralogy, HiRISE 25cm/px micro-topography, THEMIS thermal inertia, Perseverance telemetry). Computes modified Tobler's Hiking Function under 0.38g gravity with astronaut metabolic O2 constraints and 3D WebGL tactical HUD.		
KisanSetu-AI — Agricultural Supply Chain & Mandi Platform	SIH '26 TEAM LEAD	Live Demo ↗ GitHub ↗
Smart India Hackathon 2026 Team Lead platform connecting Farmers, Buyers, and APMC Officers. Engineered AI slot allocation cutting physical mandi bottleneck queues by 65%, real-time price discovery regression, 11 relational ORM models, dual PostgreSQL & MongoDB storage, and live WebSocket auction state machines.		
PenMunshi — Offline VAPT Report Copilot	OLLAMA GEMMA 4	GitHub ↗
Offline-first pentest and VAPT report copilot powered by local Google Gemma 4 on Ollama with deterministic fact verification. Features sub-span RapidOCR opaque secret blackout with re-OCR verification loops, code-calculated CVSS v3.1 scores (0 hallucinations), Nmap/Burp scanner importers, and agency-grade DOCX/HTML deliverables with 100% data sovereignty.		
Quantum Market Pulse — 4D Alpha Engine	120 FPS NVENC	Colab ↗ GitHub ↗
High-performance quantitative animation engine bridging PyVista GPU VTK surfaces and Matplotlib CPU rendering with ffmpeg NVENC hardware encoding (720×1280 9:16 @ 120 FPS). Computes 4D surface energy matrix E(t, a) with Gaussian wave smoothing across 3,400+ trading days of historical data.		
Event Intelligence Agent — Autonomous Scout	\$2.4M+ TRACKED	GitHub ↗
Autonomous reconnaissance agent tracking global hackathons, tech competitions, grants, and travel fellowships. Implements official authority verification heuristics, scheduled GitHub Actions runners, real-time Telegram bot alerts, and a searchable live web dashboard.		
GeoVigilant Argus — Tactical 3D Planetary OSINT	THREE.JS / WEBGL	Live Demo ↗ GitHub ↗
Tactical multi-domain geospatial intelligence platform rendering high-frequency ADS-B flight vectors, maritime AIS shipping tracks, satellite orbital paths, and global seismic sensor telemetry on a 60 FPS Three.js / WebGL tactical earth HUD.		
SecuScan — Local-First Security Scanning Workspace	FASTAPI + REACT	Live Demo ↗ GitHub ↗
Local-first vulnerability assessment workspace providing standardized execution controls, normalized findings, and 60 catalogued offensive integrations (Nmap, Nikto, Nuclei, Sqlmap, Masscan, SSlyze) without cloud telemetry.		
EnterpriseRAG-AI — Linux eBPF Security & Governance Mesh	KERNEL eBPF	Live Demo ↗ GitHub ↗
Linux-native eBPF security mesh engineered to monitor and govern autonomous AI agent workloads in real time. Enforces kernel-level syscall tracing (kprobe/tracepoint), secret leak redaction, dynamic memory fencing, and vector retrieval validation.		
ScamShield — Multimodal AI Fraud Defense	GEMMA 4 VISION	Live Demo ↗ GitHub ↗
Multimodal fraud defense platform engineered with Gemma 4 Vision and vernacular NLP. Features real-time screenshot threat scanning, URL phishing detection, caller threat intel, and multi-language support (English, Hindi, Gujarati).		
WinAurex V2.0 — Windows 10/11 Engineering Suite	12★ STARS	Live Demo ↗ GitHub ↗

Open-source Windows execution engine with transactional Rollback Manifest System, MVVM WPF client, automated debloating, unattended bypass configurations (TPM/RAM/SecureBoot), and complete background telemetry stripping.

OPEN-SOURCE PUBLICATIONS, HONORS & LEADERSHIP

- **Smart India Hackathon (SIH 2026):** Selected Team Lead & Principal Architect for KisanSetu-AI national procurement network.
- **NASA Space Apps Challenge 2026:** Architected Mars-GeoSpectra Martian exploration workstation leveraging 6 NASA planetary datasets.
- **Crates.io Published Package:** Released [bdstorage](#) — high-performance CLI Content-Addressable Storage (CAS) engine in Rust with system-wide file deduplication.
- **National Hackathon Winner:** Web3 & Security Track 36hr Hackathon (ScamShield fraud defense engine).
- **Hacktoberfest 2026:** Contributor & open-source developer for ScamShield and community repositories.
- **64+ Public Repositories:** Maintained active portfolio of full-stack, AI, and cybersecurity tooling at github.com/YTxFSGAMERz.