Ali Husain

AI · INFRASTRUCTURE · AUTOMATION · SOFTWARE · MEDIA

Self-driven engineer with hands-on experience across the whole stack of modern technical work – *AI systems, cloud-style infrastructure, software, security and digital media.* I take ownership end to end: design it, build it, prove it works, and write it down. New tools take me days, not months.

10	20+	40+	15
capability areas, each backed by shipped work	AI platforms and model providers used hands-on	interactive web apps, dashboards and tools built	services run in production, 24/7

AREAS OF EXPERTISE

AI & LLM engineering
Agents and multi-agent workflows, prompt engineering, model evaluation, local model deployment, retrieval & search

Cloud, DevOps & SRE
Linux, containers, CI/CD, infrastructure as code, monitoring, incident response

Networking & security
DNS, TLS, mesh VPN, firewalls, intrusion prevention, encryption, secrets handling

Backup & disaster recovery
Verified backups, multi-site copies, automated restore drills, rebuild runbooks

Software development
Python, TypeScript, C/C++, Bash, SQL — web apps, PWAs, systems and network code

Automation & integration
Scheduled services, webhooks, APIs, IoT and smart-home integration

Video & motion
Editing, beat-matched cutting, color grading, motion graphics, GPU render pipelines, 4K mastering

Audio production
Music selection and sync, narration, sound design, mixing; home-theater audio calibration

IT administration & support
Identity and access, 2FA rollout, device provisioning, OS installs, secure wipes, storage clean-up

Web, design & documentation
Front-end and UX, data dashboards, print layout, technical writing, runbooks

EXPERIENCE

AI Systems Engineer

`github / aih · agent-guardrails`

Independent · agents, evaluation and model deployment

- **Designed and run an autonomous AI operations agent** that monitors and maintains production infrastructure around the clock — bound by a written charter, woken by alerts, every change logged.
- **Built multi-agent delivery pipelines** — up to 9 coordinated agents (1.45M tokens, 566 tool calls) with build, critique and automated browser-verification stages — and ran 13-agent system audits.
- **Deployed and benchmarked open-weight language, image and video models** on local GPU hardware; wrote a 20-task evaluation suite for reasoning, instruction following and debugging.
- **Built a knowledge pipeline** over 4 GB+ of conversation data from three machines — full-text search, hourly ingestion, LLM extraction cross-checked by a second model — and safety guardrails that screen agent commands before they run.

Infrastructure & DevOps Engineer

`github / homelab`

Independent · self-hosted production platform for a multi-user household

- **Operate a 15-service containerized platform** (14 health-checked): DNS, password and identity management, file sync, smart-home control and monitoring, all behind one TLS edge.
- **Delivered secure remote access behind carrier-grade NAT with zero port forwards:** 7-node mesh VPN, split-horizon DNS, one audited public endpoint.
- **Designed backup & disaster recovery:** 12 integrity-verified sets nightly, 3 copies on 3 machines, automated weekly restore drills, a 2–3 hour bare-metal rebuild plan.
- **Built observability for 77 failure conditions** plus 13 uptime probes at 60 s, self-healing watchdogs and a dead-man switch; everything as code — 376 commits, 20 scheduled services, drift detection, ~2,800 lines of docs.

CONTACT

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PORTFOLIO
gallowforge.github.io

GITHUB
github.com/gallowforge

BASED IN
Kuwait · remote · UTC+3

CORE STRENGTHS

AI agents · LLM evaluation · Prompt engineering · DevOps · Linux · Docker · Networking · Security · Automation · Python · TypeScript · C / C++ · Video editing · Sound design · Web development · IT support · Technical writing · Fast learner

TOOLBOX

AI platforms
Anthropic and OpenAI models, open-weight LLMs, local inference on GPU, agent frameworks, MCP, Hugging Face ecosystem

Generative media
Image, video, voice and music generation models; diffusion pipelines; programmatic editing with Python and ffmpeg

Infrastructure
Linux (Debian, Arch), Docker, systemd, Git, GitHub Actions, Caddy, Nginx, Tailscale / WireGuard, SQLite, Redis, CouchDB

Languages
Python, TypeScript / JavaScript, C, C++, Bash, SQL, R, Standard ML, Prolog

Practices
Infrastructure as code, observability, backup & DR, security hardening, code review, technical documentation

OPEN TO

- **Remote contracts** — infrastructure, DevOps, automation, AI integration, video and audio post-production.
- **AI training & evaluation** — code review, model-output rating, prompt and rubric writing.
- **Flexible hours** — UTC+3 overlaps the full European working day.

Web & Product Developer

github / Ethereal

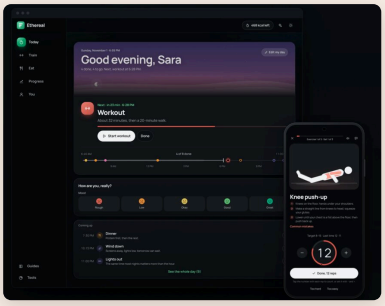
Independent · product design, front-end and delivery

Ethereal

LIVE

Offline-first health & fitness web app — product lead

Led product design and delivery of an installable, account-free app that plans the day, coaches workouts and tracks nutrition. 41 animated exercises, a 1,474-food offline database, CI/CD on every push, built to WCAG 2.1 AA accessibility and Lighthouse 100 performance targets.
gallowforge.github.io/Ethereal



`TypeScript` `Astro` `PWA` `CI/CD` `UX design`

Studio marketing site

Six-page brand site for an AI video-ad studio

Designed and built a responsive, animated marketing site: service pages, showcase, pricing and contact, ready for edge deployment.

`Next.js` `Tailwind` `Framer Motion`

Interactive 3D story page

Scroll-driven WebGL experience

Animated 3D scenes, chapter navigation and live data, verified by automated screenshots across phone and desktop sizes.

`WebGL` `JavaScript` `Puppeteer`

40+ interactive web pages, dashboards and tools

Live market dashboards on real-time price feeds, learning tools with quizzes and flashcards, data visualizations, planners, a party-quiz game and visual explainers — each designed for phone and desktop.

`HTML/CSS/JS` `data visualization` `responsive design` `real-time data`

IT Administrator & Support

github / bwtidy

Independent · household of five, 20+ devices across Linux, macOS, iOS, Android and smart-home

- **Identity & access:** migrated 240+ credentials into a self-hosted password manager, consolidated them into organised, deduplicated folders, and rolled out authenticator-based 2FA.
- **Device lifecycle:** reprovisioned a locked laptop with a fresh Linux install, securely wiped and re-paired a smartwatch over ADB, debloated a smart TV and deployed a custom launcher.
- **Network & storage:** enforced household-wide DNS filtering at the router, and reclaimed 88 GB on a laptop by removing 5,537 hash-verified duplicate files.

Video, Audio & Generative Media Producer

github / filmforge

Independent · writer, director, editor, sound designer



- **Produced two painted short films and a 67-page illustrated book** end to end — script, visual style, edit, sound — delivered as 4K masters, print-ready editions, a 37-page making-of and two localized versions.
- **Post-production built in code:** beat-matched editing, a matched color grade, motion graphics and animated titles, 45 narration lines timed across cuts, layered sound design and final mixes, rendered on GPU.

EDUCATION

BSc Computer Science

Kuwait University

IN PROGRESS

TECHNICAL FOUNDATIONS

Algorithms & data structures · operating systems & systems programming · computer architecture (MIPS, Verilog) · computer networks · databases & SQL · theory of computation · functional & logic programming · discrete mathematics, calculus, linear algebra, statistics · physics, chemistry, materials science, engineering drawing

LEARNING & CERTIFICATIONS

Electronic Crimes

Certificate of completion

Continuous self-study

LeetCode algorithm practice · online courses on Coursera and Udemy across computer science, AI and engineering

EXPANDING INTO

Kubernetes · Cloud platforms · MLOps · Cybersecurity · AI product design

HOW I WORK

- **Prove it works.** A backup isn't done until it's restored; a fix isn't done until it's tested from the user's side.
- **Write it down.** Every system ships with a runbook someone else could follow.
- **Fewer things, done properly.** Simple setups that stay up beat clever ones that break.
- **Learn by shipping.** Linux workstation, AI agents, film post-production — each learned by building something real.

BEYOND WORK

Cinema (1,150+ films logged), storytelling, home-theater sound.

Scan for code and live work