Muhammad Zain Iqbal

AI-Native Builder | Full Stack Developer

zainiqbal.dev@gmail.com Lahore, Pakistan zainiqbal.tech

linkedin.com/in/muhammadzainiqbal/ github.com/MuhammadZainIqbal

SUMMARY

I am a Computer Science student at UET Lahore focused on building secure, functional software. I prioritize logic and resilient code over superficial features, driven by a desire to understand how systems operate under the hood. Whether working across the full stack or integrating AI, I view engineering as a process of continuous, honest problem-solving. I am a dedicated builder committed to mastering the practical realities of software through hands-on experience.

EDUCATION

University of Engineering and Technology (UET), Lahore 2023 – 2027

BS in Computer Science Lahore, Pakistan

- Focus: Systems Programming, DevOps, Full Stack Development.

SKILLS

Languages
Python, C#, TypeScript, JavaScript, C++, SQL

Frameworks & Runtime & Environments
ASP.NET Core, Next.js, Node.js, Electron, React

DevOps & Cloud
AWS, Docker, GitHub Actions, Terraform, Hugging Face, CI/CD

Others
Penetration Testing (Burp Suite, Metasploit, Nmap), OSI/TCP-IP models

PROFESSIONAL EXPERIENCE

Freelance 2025 – Present

Full Stack Developer & AI Builder

- **Custom Web Applications:** Built and launched responsive full-stack apps from the ground up. Handled everything from clean database design and secure auth to plugging in AI APIs for smart automation.
- **Custom Softwares:** Built and delivered tailored POS and ERP software for retail and service clients, focusing on streamlining inventory, workflows, and daily business operations.
- **Client Collaboration:** Managed end-to-end project lifecycles, translating basic client requirements into stable, functional software systems without relying on bloated templates.

CORE ENGINEERING PROJECTS

Present!

Architected a high-availability, multi-tenant attendance platform for institutional-scale reliability.

- Multi-Tenancy: Engineered strict data isolation logic for secure multi-institute hosting on a single platform.
- Time-Lock Engine: Developed a proprietary time-gated engine that enforces strict attendance windows, preventing proxy submissions.
- Security & Infra: Implemented a Role-Based Access Control (RBAC) system, containerized the runtime via a non-root Dockerfile, and provisioned the infrastructure declaratively using Terraform on Azure behind a Cloudflare proxy.
- CI/CD: Configured a GitHub Actions pipeline using Docker Buildx caching for automated container deployment.
- Live Demo: present.zainiqbal.tech

mini-fuzz

Async HTTP Fuzzing Framework Developed a high-performance HTTP fuzzer for bug-bounty reconnaissance and security testing.

- Concurrency: Built using asyncio and httpx to handle high-velocity requests with a token-bucket RPS limiter.
- Safety Guardrails: Implemented automated 429/5xx storm detection and scope-enforcement gates for responsible fuzzing.
- Interfaces: Delivered three distinct workflows, including an async Terminal UI (Rich) and a threaded Tkinter GUI.

Blockchain-Based Voting System

Designed an immutable, anonymous electoral platform leveraging advanced cryptographic concepts.

- Anonymity: Integrated Ring Signatures to protect voter identity while ensuring each vote remains verifiable.
- Privacy: Utilized Homomorphic Encryption to enable secure tallying without decrypting individual ballots.
- Consensus: Implemented a Proof-of-Authority (PoA) mechanism to stabilize a trusted, audit-ready consensus ledger.