Muhammad Zain Iqbal

Systems & Automation Engineer | AI-Native Builder | Full Stack Developer

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

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

SUMMARY

Systems and Automation Engineer specializing in high-performance .NET ecosystems and AI-native orchestration. Expertise in building secure, multi-tenant SaaS infrastructure and developing offensive security tools. Focused on shifting security left through automated validation and cryptographic integrity.

EDUCATION

University of Engineering and Technology (UET), Lahore 2023 – 2027
BS in Computer Science Lahore, Pakistan
- Focus: Systems Programming, Cloud Security, and Data Structures.

SKILLS

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

Frameworks
ASP.NET Core, React/Remix, Node.js, Flutter

DevSecOps & Cloud
AWS, Docker, GitHub Actions, Terraform, Hugging Face

Security & Networking
Ring Signatures, Homomorphic Encryption, Penetration Testing (Burp Suite, Metasploit, Nmap), OSI/TCP-IP models

CERTIFICATIONS

Cisco Certified Ethical Hacker
Cisco

PenTest+: Attacks and Exploits
Cybrary

PenTest+: Information Gathering and Vulnerability Scanning
Cybrary

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.
- Tech Stack: ASP.NET Core 8.0, Entity Framework Core, MS SQL Server, RBAC Architecture.

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.