

SHEHROZ SHAFQAAT

Automation Systems Developer | Cybersecurity Analyst | Software Engineer

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SUMMARY

Results-driven automation engineer and cybersecurity analyst with expertise in building intelligent systems, web scraping, and security testing. Proficient in Python, Flask, Playwright, and AI integration (OpenAI APIs, RAG). Proven track record designing end-to-end solutions from concept to deployment—including Flask apps, CLI tools, GUIs, and containerized services. Security-trained through Mastercard and Deloitte simulations; full-stack capable across backend (Python, C#.NET), frontend (React, TypeScript), and cloud-native architectures (Docker). Seeking full-time or part-time role to drive business automation, strengthen security posture, and deliver scalable software.

TECHNICAL SKILLS

Automation & Scripting: Python, Playwright, Selenium, HTTP/Web scraping, Streamlit, CLI tools (Typer), RPA workflow design

Backend & Full-Stack: Python (Flask, FastAPI), C# (.NET), Node.js, Express, SQLAlchemy ORM, REST APIs, database design (PostgreSQL, MongoDB)

Frontend & UI: React, Redux, TypeScript, CustomTkinter (desktop GUIs), HTML5, CSS3, responsive design

AI & Intelligence: OpenAI API integration, LLM-powered categorization & generation, multi-tone/multi-format prompt engineering, RAG patterns

Cybersecurity & Testing: Threat identification & analysis, phishing detection, security awareness, suspicious activity investigation, unit testing (pytest, xUnit)

DevOps & Tools: Docker, Git/GitHub, Postman, encryption (Fernet), background threading, cross-platform debugging (Windows/Mac/Linux)

FEATURED PROJECTS

AI-Powered Web Research Assistant

Flask app generating polished research dossiers from public web sources—zero paid APIs, 50+ data points, auto-generated Word reports in <5 seconds

- Engineered HTML parsing pipeline with public RSS feeds to compile company intelligence (employees, competitors, revenue signals, news, contacts)
- Auto-generates comprehensive Word reports (executive summary, charts, methodology) using python-docx; deployed with field-dossier themed UI

AI Email Reply Automation System

Python desktop app (CLI + GUI) intelligently categorizes and auto-generates replies using OpenAI API with 14 email types × 15 tones

- Architected shared controller layer for CLI (Typer) and GUI (CustomTkinter) with zero duplicated business logic; Fernet encryption for credentials
- Built full CRUD, multi-format export (CSV/JSON/Excel/Markdown), activity logging, stats dashboard; pytest coverage with mocked OpenAI client

Google Maps Scraper (GUI + CLI + Docker)

Streamlit GUI for live business research scraping with live results, one-click Excel export, cross-platform Docker deployment

- Built Playwright-based scraper with rate-limit handling; diagnosed and fixed Windows-only asyncio event-loop conflict affecting subprocess launch

- Containerized with Docker (Playwright base image); shared core module powering both CLI and GUI with zero duplicated logic

PROFESSIONAL DEVELOPMENT & CERTIFICATIONS

Commonwealth Bank Software Engineering Job Simulation (Forage) — Extended backend (C# .NET), modified React/Redux frontend for icons, strengthened unit testing with xUnit

Mastercard Cybersecurity Job Simulation (Forage) — Identified phishing threats, analyzed security vulnerabilities, implemented security training procedures

Deloitte Australia Cybersecurity Job Simulation (Forage) — Analyzed web activity logs, identified suspicious user behavior in breach response scenario

EDUCATION

B.Sc. in Computer Science (In Progress) — University of Engineering & Technology (UET), Lahore, Pakistan | Expected Graduation: 2028

ADDITIONAL

Languages: English (fluent), Urdu (native) | Soft Skills: Problem-solving, cross-functional collaboration, rapid prototyping, security mindset | Availability: Full-time, part-time, contract, or internship roles