

TAYYAB NASIR

PYTHON AUTOMATION ENGINEER

Backend Systems | API Integrations | Async Workflows | Data Extraction

Islamabad, Pakistan | Open to remote and relocation | +92 336 1100396 | contact@tayyabautomates.com
tayyabautomates.com | linkedin.com/in/tayyabautomates | github.com/tayyabnasir01112-debug

200+ production automations | 80-90% manual work reduced | 100% Upwork Job Success | 300+ Fiverr orders

PROFESSIONAL SUMMARY

Python automation engineer with 7+ years of experience building reliable scripts, API integrations, async backend services, and data extraction pipelines. Combines a Computer Science foundation with hands-on IT automation expertise to design, debug, and scale systems that improve operational reliability and efficiency. Production experience includes FastAPI, asyncio, SQLAlchemy, Playwright, n8n, Docker, testing, and CI.

CORE SKILLS

Python & Backend: Python, FastAPI, asyncio, httpx, SQLAlchemy, Pydantic, Flask, REST APIs, background workers

Automation & Integrations: n8n, Make.com, Zapier, webhooks, cron, HubSpot, Shopify, Stripe, Twilio, Google Workspace

Data Extraction & Storage: Playwright, Selenium, Scrapy, BeautifulSoup, Apify, PostgreSQL, MySQL, SQLite, Pandas

Reliability & Delivery: Docker, Linux/VPS, GitHub Actions, Pytest, Ruff, Mypy, retries, rate limiting, structured logging

IT Automation: Git/GitHub, operating-system automation, troubleshooting, debugging, configuration management, cloud workflows

PROFESSIONAL EXPERIENCE

Founder & Senior Automation Engineer | TayyabAutomates

2018 - Present | Remote clients across the US, UK, Australia, and Canada

- Delivered 200+ production Python and n8n automations that replaced repetitive business processes with reliable workflows operating 24/7.
- Reduced manual operational work by 80-90% through workflow redesign, API integration, data pipelines, and maintainable automation.
- Built extraction systems with Playwright, Selenium, Scrapy, BeautifulSoup, and APIs to collect, normalize, enrich, deduplicate, and sync structured data.
- Connected CRMs, payments, e-commerce, email, databases, spreadsheets, and messaging tools using REST APIs, webhooks, scheduled jobs, and custom transformations.
- Deployed self-hosted n8n and Python services on Docker, VPS, Railway, and Render with retries, error branches, credential handling, logging, and handover documentation.
- Owned delivery from requirements and architecture through implementation, testing, launch, documentation, support, and iterative improvement.

Top Rated Plus Automation Freelancer | Upwork & Fiverr

2018 - Present | Python automation, web scraping, and API integrations

- Maintained a 100% Upwork Job Success Score and delivered 300+ Fiverr orders with a 5.0 average rating.
- Converted one-off automation requests into repeat engagements by delivering maintainable systems, clear handovers, and measurable time savings.

SELECTED CLIENT IMPACT

- Business Directory Automation:** Built a scraping, enrichment, deduplication, and Google Sheets pipeline for a 149,000-member UK business directory; delivery led to a joint-venture proposal.
- AI Lead Enrichment & CRM Pipeline:** Created an n8n, GPT-4, Claude, HubSpot, and PostgreSQL workflow that scored and classified inbound leads, routed qualified prospects, and reduced daily manual data entry.
- E-commerce Listing Automation:** Automated product extraction, structured listing generation, inventory syncing, and storefront operations using Python, Playwright, Shopify API, and AWS S3.

FLAGSHIP PYTHON PORTFOLIO

Price Intelligence Platform | *Python, FastAPI, asyncio, Playwright, SQLAlchemy, Pydantic, Docker* | [GitHub](#)

- Built an async catalog-monitoring platform with FastAPI control plane, HTTP extraction, controlled browser pool, durable queue, persistent run history, task leasing, retry budgets, JSON logging, CI, and tests.
- Implemented typed request schemas, async persistence, proxy and user-agent rotation hooks, safe selector error boundaries, Docker packaging, and automated quality checks with Pytest, Ruff, and Mypy.

Async Workflow Orchestrator | *Python, asyncio, FastAPI, SQLAlchemy, Pydantic, Docker* | [GitHub](#)

- Built a DAG-based orchestration engine with validation, concurrent execution, plugin tasks, retries, timeouts, cancellation, resume behavior, persistent state, API controls, JSONL logs, and integration tests.
- Exposed FastAPI endpoints to trigger, inspect, cancel, resume, and visualize runs; added YAML workflow examples and tests for cycles, timeouts, cancellation, concurrency, and API behavior.

API Integration Hub | *Python, FastAPI, asyncio, httpx, SQLAlchemy, Pydantic, Docker* | [GitHub](#)

- Built an async integration backend for provider registration, external API syncs, account-level rate limiting, persistent sync history, and audit logs.
- Implemented provider adapters for Stripe-like, Shopify-like, and HubSpot-like APIs, plus HMAC webhook verification, replay tolerance, secret-safe schemas, deterministic test providers, CI, and Docker.

SELECTED PRODUCTS SHIPPED

- **SimpleAutomate:** Automation SaaS with drag-and-drop pipelines, bulk email campaigns, and Stripe billing.
- **CRMLaunch:** CRM product for UK small businesses with quotes, invoices, inventory, HR modules, and workflow hooks.
- **MyNetPay & MortgageCalcGlobal:** Fintech/payments utility and a global, multi-currency mortgage calculator.

TRANSFERABLE STRENGTHS

Systems thinking | Root-cause analysis | Requirements discovery | Technical documentation | Project ownership | Client communication | Remote collaboration | Continuous improvement

CERTIFICATIONS

- **Google IT Automation with Python Professional Certificate** - Google/Coursera | Completed July 2026; credential available July 31, 2026
Skills: Python automation, Git/GitHub, operating-system scripting, troubleshooting and debugging, testing, configuration management, and cloud automation.
- **micro1 AI Interview Certification - Outstanding Performance** | micro1, May 2026
- **Microsoft Power Automate RPA Developer Associate (PL-500)** | LinkedIn Learning, Dec 2025
- **Build AI Agents and Automate Workflows with n8n** | LinkedIn Learning, Dec 2025

EDUCATION

BS Computer Science | Pir Mehr Ali Shah Arid Agriculture University
Rawalpindi, Pakistan | 2016 - 2020