

Yasir RAZA

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SUMMARY: Python developer and open-source maintainer with 1.5+ years of remote experience on US-based teams. Two published **PyPI** packages (**10K+ downloads**), **7,275+** tests written across projects, and a strong quality culture: typed code (mypy), linted code (ruff), benchmarked hot paths, and CI-gated releases.

TECHNICAL SKILLS

CORE PYTHON: Python 3.11+, asyncio, typing/protocols, concurrency (thread pools, subprocess isolation), dataclasses, context managers

PACKAGING & CLI: setuptools, uv, PyPI publishing, Click, Rich, Sphinx documentation, versioning & release workflows

QUALITY & TESTING: pytest (7,275+ test functions authored), pytest-asyncio, pytest-benchmark, coverage, ruff, mypy, pre-commit, GitHub Actions CI

DATA & APIS: pandas, NumPy, requests/httpx, REST, WebSocket, Scrappy, Playwright, SQL

TOOLING: Git, Docker, docker-compose, Make, Linux, CI/CD

WORK EXPERIENCE

TEAMLIFT — UNITED STATES (REMOTE).....

Junior Data Scientist

Jan 2024 - Dec 2024

- Scraped **thousands of AI tools** from public tool directories and built an automated **verification pipeline** (HTTP status checks, screenshot capture, freshness validation) powering Teamlift's **Teamo** recommendation engine.
- Preprocessed and normalized thousands of tool records into model-ready features with reproducible, testable cleaning workflows.

Data Science Intern

Jul 2023 - Dec 2023

- Built an automated pipeline collecting **thousands of job postings** from dice.com with **deduplication**, hardened with retries, rate limits, and robust parsers.
- Trained **time-series models** to forecast skill demand; delivered documented, testable preprocessing utilities to the analytics team.

TECHNICAL PROJECTS

NotebookLLM — Open-Source Python Library, CLI & MCP Server

2025 - 2026

- Designed, packaged, and published to **PyPI** (10K+ downloads): unified API across **8+ notebook formats**, 4-mode agent-optimized output with tiktoken token budgeting, **ijson streaming** for 10 MB+ notebooks, atomic crash-safe writes, Click CLI with Rich output, pytest suite with benchmarks, ruff + mypy gates, Sphinx docs, and CI.

Kausal — Production AI Agent Platform (private)

2026

- Extended the ii-agent framework in **pure Python** (no LangGraph): custom **RAG**, layered memory, **OpenTelemetry** observability, **LiveKit** voice/video, **LiteLLM** routing, agent skills, S3 storage — with a **7,275-test** behavioral suite across 16 test categories (unit, integration, load, e2e).

Forge — Code Generation Engine

2024 - 2026

- Built emitters producing **Python SDKs** (Pydantic-validated), CLI tools, MCP servers, and **17 output types** from one OpenAPI 3.x IR; multi-registry publishing pipeline (PyPI, npm, Cargo, Maven, NuGet), byte-stable output tests, and 13 compile gates in CI.

Cerberus — Browser Control Plane

2026

- Engineered an idempotent **Make**-driven setup/verify system (**86 automated checks**), a 60-tool MCP bridge, and diagnostic tooling with actionable failure logs across a multi-process Python/Node stack.

EDUCATION

B.Sc. Software Engineering, National University of Modern Languages (NUML), Islamabad

Aug 2026

CERTIFICATIONS

CERTIFICATES: Kaggle **2× Expert** (Datasets · Notebooks, 13 medals) · DataCamp (Associate Data Scientist in Python & Data Analyst career tracks) · Google Cloud skill badges (4 Gen AI badges) · NUST Advanced LLM Bootcamp