

Yaniv Metuku

QA Automation Engineer · AI-Augmented Testing

✉ yaniv2809@gmail.com

☎ 054-921-6368



github.com/
Yaniv2809



linkedin.com/in/yaniv-
metuku



yaniv-metuku-
website-2809.vercel.app

SUMMARY

QA Automation Engineer specializing in AI-augmented testing tooling, E2E framework design, and Python-based automation. Author of FixtureForge — an open-source AI-powered test data library published to PyPI, supporting multi-provider LLM backends (Claude, GPT, Gemini, Groq, Ollama). Builds scalable test ecosystems spanning Web, API, Mobile, and Database layers, with deep experience in CI/CD pipeline architecture and intelligent failure analysis. Background in mission-critical operations (IDF/SAP ERP) reinforces analytical rigor, root cause discipline, and fast ramp-up on complex systems.

TECHNICAL SKILLS

Automation & Core: Python (OOP), pytest, Playwright, Appium, Scapy, Allure Reports

API & Backend: REST API testing, Postman, requests, data integrity validation, RCA

CI/CD & Pipelines: GitHub Actions (multi-step pipelines, automated triggers, Allure Pages deployment)

Databases: SQL, MySQL, SQLite, data validation concepts

AI & Tooling: LLM integration (Claude/GPT/Gemini/Groq/Ollama), Pydantic v2, AI failure analysis (Groq/Llama)

Infrastructure & OS: Linux/CLI (tcpdump, netstat, curl), Docker, Git, Shell scripting

Networking: TCP/IP, DNS, HTTP/HTTPS, TLS, SMTP, FTP, SIP, VPN/ IPSec, Wireshark

QA Methodologies: E2E system testing, regression/functional, root cause analysis, Jira, Xray

TECHNICAL PROJECTS — PROOF OF WORK

FixtureForge



PyPI v2.1.0 | AI-Powered Test Data Harness

- ▶ Published open-source Python library — AI-powered test data generation with deterministic CI mode (seed-controlled), DataSwarms parallel multi-model generation (~90% token cost reduction), ForgeMemory persistent business rules, and ForgeDream automated coverage gap analysis.
- ▶ Provider-agnostic architecture supporting Claude, GPT, Gemini, Groq, Ollama, or zero-AI mode; Pydantic v2 native with intelligent field routing (structural/standard/semantic tiers), FK auto-resolution, permission gates, and streaming for 100k+ record datasets.

Financial-Integrity-Ecosystem



| E2E QA Automation — Bootcamp Capstone

- ▶ 53-test E2E framework across 4 layers (Playwright/Web, REST API, Appium/Mobile, MySQL/DB) with cross-layer data integrity validation and AI-powered failure analysis via Groq/Llama.
- ▶ 12-step GitHub Actions CI/CD pipeline with MySQL service container, automated Allure report deployment to GitHub Pages, and supply chain security (pip-audit, Gitleaks, dependency pinning).

EDUCATION

QA Automation Engineering Program | ATID College

2025 – 2026

800+ hour intensive program — Backend, API & Automation testing

- ▶ Designed and executed a comprehensive E2E backend automation framework utilizing Python (OOP) and pytest.
- ▶ Built and deployed multi-step test pipelines in GitHub Actions CI/CD; executed REST API validation and rigorous SQL database integrity checks.
- ▶ Conducted automated root cause identification, isolating backend logic failures efficiently.

P.E. Industrial Management | The Joint College (IDF + Gov Program)

2018 – 2020

Specialization in Operations Management and Information Systems

PROFESSIONAL EXPERIENCE

Logistics & Operations Specialist (Deputy Team Lead) | IDF

2020 – 2022

- ▶ Managed end-to-end mission-critical processes using SAP ERP with rigorous system validation across complex data environments.
- ▶ Owned data integrity for large-scale operations — debugged discrepancies, performed root cause analysis, and verified system fixes under strict deadlines.
- ▶ Collaborated with cross-functional teams and external stakeholders to coordinate delivery readiness and quality standards.

VOLUNTEERING

Robotics Instructor | Hamapilim School, Lod (2025) — Tutored 2nd-grade students in robotics and hardware concepts, fostering early interest in STEM and logical problem-solving.