Yotam Jacob

Software Verification & Automation Engineer | Test Frameworks, CI/CD & AI-Driven QA

Israel +972-52-8828232 yotamjacob@gmail.com yotam-jacob.com LinkedIn GitHub

Software Verification & Automation Engineer with 7 years in frontend and backend testing, owning features from test plan through full automation. I design automated test frameworks in **Python, pytest, and Playwright**, then drive system- and integration-level validation across Linux and CI/CD environments, with disciplined defect analysis tracked to closure. My foundation is formal validation & verification (V&V) with requirement-to-test traceability from FDA-regulated products. Lately I build LLM-driven QA pipelines that push verification further as AI writes more of the code.

`Software V&V` `Python Test Automation` `System & Integration Testing` `Playwright E2E` `CI/CD Automation` `AI-Driven QA Pipelines`

EXPERIENCE

QA & Automation Engineer, Exactius — 2024 – Present

Our main web product: Violet, a client-facing Next.js / TypeScript / React platform.

- Designed and built an **AI-powered incident pipeline from scratch** (Sentry → LLM triage → ClickUp → GitHub PR) on Pipedream, auto-classifying production errors, analyzing defects, and opening pull requests with eval-style confidence-gated assessments.
- Built a **self-growing test-coverage pipeline** that converts closed production bugs into Playwright regression tests via Claude Code, driven by a tag-based state machine and scheduled weekly runs.
- Authored custom **Claude skills** and slash commands that automate bug-fix test coverage across both frontend and backend, streamlining day-to-day verification work.
- Led the team's unit-testing initiative: stood up **Jest + React Testing Library + MSW** test framework with CI enforcement, delivering 40+ tests across React components with mocked contexts, routing, and API hooks.
- Architected **Playwright E2E parallelization** for a shared-state environment using tag-based serial lanes (@readonly/@stateful) and per-worker storage state to eliminate race conditions.
- Owned the verification strategy for a **FastAPI** service on **Google Cloud Run**, building automated coverage with pytest/httpx alongside system- and integration-level testing.
- Drove root-cause defect analysis with trace-first debugging (Playwright traces, HAR, video) and shipped automated production healthchecks.

Verification & Automation Engineer, Nanox Vision — 2019 – 2024

- Owned formal **validation & verification (V&V)** and requirement-to-test traceability for regulated SaaS algorithms, producing STD/STR/RTM documentation and automating GitLab CI/CD tests to support FDA submissions.
- Designed and maintained a **Java + Selenium** automation framework for client-facing SaaS, collaborating with a distributed team of 8 developers.
- Built and maintained unit, integration, and system test suites; ran regression, sanity, and smoke cycles for every release, reporting via Jira and Xray.
- Partnered with manual QA across scrum/agile/waterfall R&D teams to automate processes and significantly cut release time.
- Stack: Python, pytest, Cypress, JMeter, SOAP UI, Postman, REST API testing, Shell, Linux, AWS (EC2, S3).

Data Analyst, MIGAL Institute — 2018 – 2019

- Processed agricultural aerial imagery in MATLAB/Python, computed crop-health indices (NDVI), and managed geospatial data in ArcGIS.

TECHNICAL SKILLS

Test & Verification	Automated test frameworks, system & integration testing, regression/sanity/smoke, formal V&V, requirement traceability, defect analysis
Automation Tools	Playwright, Selenium, WebDriverIO, Cypress, Jest, React Testing Library, MSW, pytest, TestNG/JUnit, Cucumber BDD
Languages	Python, Java, TypeScript, JavaScript, Bash, SQL
AI & Pipelines	Agentic triage/fix pipelines, eval-style confidence gating, LLM integration (Claude, Codex, GitHub Copilot), custom Claude skills, prompt engineering, Pipedream
DevOps & Cloud	GitHub Actions, GitLab CI/CD, Linux, Google Cloud Run, AWS (EC2, S3)
Backend & PM	FastAPI, REST / RESTful, Postman, PostgreSQL, MongoDB, Sentry, ClickUp, Jira, Xray

EDUCATION

B.Sc. Computer Science
Tel-Hai College, Israel · 2015 – 2019

CERTIFICATIONS & LANGUAGES

Cucumber, Java & Selenium (Udemy)
Hebrew (Native) · English (Fluent)