

# Yotam Jacob

## AI Quality & Automation Engineer | Agentic QA Pipelines & LLM Evaluation

Israel (open to fully remote) | +972-52-8828232 | yotamjacob@gmail.com | [linkedin.com/in/yotam-jacob](https://www.linkedin.com/in/yotam-jacob) | [github.com/yotamjacob](https://github.com/yotamjacob)

AI Quality & Automation Engineer with 7 years across frontend and backend test automation, from CI-enforced unit, E2E, and regression suites to self-maintaining, LLM-driven QA pipelines built from scratch. I build the **verification layer for AI-assisted software**: agentic triage-and-fix automation and eval-style confidence gating that scale as AI writes more of the code. Grounded in formal V&V and regulatory verification (FDA), and a seasoned remote engineer across distributed, asynchronous teams.

Agentic QA Pipelines

LLM Evaluation & Triage

Playwright E2E

CI/CD Automation

FastAPI / pytest

TypeScript / React

### EXPERIENCE

#### QA & Automation Engineer, Exactius (Remote)

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, drafting fixes, 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 QA work.
- ▶ Led the team's unit-testing initiative: stood up **Jest + React Testing Library + MSW** infrastructure 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 QA strategy for a **FastAPI** dashboard-publishing service on **Google Cloud Run**, building backend coverage with pytest/httpx alongside production E2E validation.
- ▶ Drove root-cause analysis with trace-first debugging (Playwright traces, HAR, video) and shipped automated production visual healthchecks.

#### Automation Engineer, Nanox Vision (Hybrid)

2019 – 2024

- ▶ Designed and maintained a **Java + Selenium** frontend automation framework for client-facing SaaS, collaborating with a remote, distributed team of 8 developers.
- ▶ Owned formal validation & verification (V&V) and traceability for regulated SaaS algorithms, producing STD/STR/RTM documentation and automating GitLab CI/CD tests to support FDA submissions.
- ▶ 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

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|----------------------------|---|
| <b>AI &amp; Pipelines</b>  | Agentic triage/fix pipelines, eval-style confidence gating, LLM integration (Claude, Codex, GitHub Copilot), custom Claude skills, prompt engineering, Pipedream, Claude Code |
| <b>Test Automation</b>     | Playwright, Selenium, WebDriverIO, Cypress, Jest, React Testing Library, MSW, pytest, TestNG/JUnit, Cucumber BDD  |
| <b>Languages &amp; Web</b> | Java, TypeScript, JavaScript, Python, Bash, React, Next.js  |
| <b>Backend &amp; API</b>   | FastAPI, REST / RESTful, Postman, SQL, PostgreSQL, MongoDB  |
| <b>DevOps &amp; Cloud</b>  | GitHub Actions, GitLab CI/CD, Google Cloud Run, AWS (EC2, S3), Linux / macOS / Windows  |
| <b>Monitoring &amp; PM</b> | Sentry, ClickUp, Jira, Xray, Zephyr   |

### EDUCATION

#### B.Sc. Computer Science

Tel-Hai College, Israel · 2015 – 2019

### CERTIFICATIONS & LANGUAGES

Cucumber, Java & Selenium (Udemy)

Hebrew (Native) · English (Fluent)