

AMIR TABATABAEI

Automation & Integration Engineer · Python · APIs · Playwright · Bots

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PROFILE

Python engineer who builds the systems that remove manual work: scheduled monitors, third-party API integrations, messaging bots and document pipelines. I have replaced manual paper registration with digital verification, manual ID-card production with automated generation, and inbox-by-inbox code checking with a single bot conversation. Comfortable owning the whole path — integration, scheduling, deployment, logging and alerting.

CORE SKILLS

Automation Playwright browser automation, scheduled jobs on GitHub Actions cron, data collection pipelines, PDF generation

Integrations REST API integration, IMAP, Microsoft OAuth (MSAL), Telegram Bot API, SMS gateways, reCAPTCHA, Google OTP

Backend Python, FastAPI, Django, PostgreSQL, SQLAlchemy, MongoDB, JWT / OAuth2, REST API design

Ops Docker, Docker Compose, systemd / journald service management, GitHub Actions CI, Linux, Sentry, health checks

Also TypeScript, JavaScript, React, Next.js · PyTorch, OpenCV, RAG for AI-assisted automation

AUTOMATION & INTEGRATION PROJECTS

HemaCodeBot — Multi-Mailbox Code Retrieval Bot · Python, Telegram, MSAL

Jul 2026

- Telegram bot that retrieves security codes across eight backup mailboxes, replacing manual inbox-by-inbox checking with a two-step conversation.
- Integrated IMAP and Microsoft OAuth via MSAL for authenticated mailbox access; added a code-extraction layer, persistent storage and a health-check endpoint.
- Deployed as a managed systemd service with structured logging.

Bot Hub — Bot Fleet Control Plane · Python, systemd/journald

Jul 2026

- Control plane for managing a fleet of running bots entirely through systemd and journald — start, stop, monitor and read logs without touching any bot's source code.
- Declarative YAML bot registry, a web frontend, deployment tooling and a test suite; designed so any existing bot becomes manageable by adding a single unit-file directive.

Stock Availability Monitor · Python, Playwright, GitHub Actions

Jun 2026

- Scheduled monitor that checks retail product availability every 30 minutes on GitHub Actions cron and pushes a Telegram alert the moment stock returns.
- Detects availability by intercepting the page's own analytics network request, with a DOM-state fallback when that signal is absent — more reliable than scraping rendered markup.

Catalog Scraper & PDF Generator · Python

2026

- Collected structured product data across multiple fashion catalogues and generated print-ready PDF catalogues per collection and category, replacing manual catalogue assembly.

Telegram Prize Bot · Python, MongoDB, Docker

Aug 2025

- Telegram lottery and prize-draw bot with an admin command surface, MongoEngine-backed data models, and Docker Compose deployment.

EXPERIENCE

Freelance Software Engineer — Independent three-person team

Sep 2024 – Present

İzmir, Türkiye · Remote · Backend owner across all client engagements below.

EVO — Field Merchandising Route Planner · .NET 10, React, TypeScript

Jul 2026 – Present

- Route-planning tool for field merchandising supervisors — store visits, visit frequencies, in-store tasks and schedules. In active development for a prospective client.
- Drove the architecture: contract-first design where the backend emits an OpenAPI specification that generates the typed client for the React and Vite panel.
- Defined the layered service boundaries, the SQL Server and MinIO storage design, and the Docker Compose environment.
- Set the test strategy across unit and end-to-end layers, and authored the specifications, architecture decisions and roadmap the build was executed against. 170+ commits.

KohaApp — Tournament Management Platform · paid engagement

Oct 2024 – Dec 2025

- Built the FastAPI backend for tournament registration — player and team models, submission forms, and an admin panel replacing paper-based registration with digital verification.
- Implemented automatic ID-card generation, including bulk generation, removing the manual card-making step for tournament organisers.
- Secured registration with reCAPTCHA and JWT authentication; added Sentry error monitoring and a GitHub Actions deployment workflow.
- Deployed with Docker Compose and maintained the platform through December 2025.

Dubai Visa Platform — Multi-Tenant Agency Dashboard

Aug 2025

- Designed a FastAPI and Jinja2 dashboard for visa request management, document uploads, accounting pages and user administration.
- Implemented white-label multi-tenancy so each agency sees only its own data and branding.
- Built role-based access control across five roles — SuperAdmin, Manager, Agent, Accountant and Visa Editor — with permission-driven adaptive menus.
- Integrated with a core backend over JWT-secured APIs, enforcing one-device login, Google OTP, reCAPTCHA and full audit logging.

RashApp — Product Warranty & Customer Platform

Sep 2024 – Mar 2025

- Owned the FastAPI backend: account, authentication and user CRUD modules, Pydantic schemas, and SQLAlchemy models.
- Implemented two-factor authentication for both sign-up and login, plus password reset and an SMS verification service.
- Built profile management with avatar upload and file size and type validation, and a product warranty-check flow.
- Collaborated with two front-end developers on feature integration. Project reached completion but was cancelled by the client before launch.

EDUCATION

Bachelor's Degree, International Trade and Finance

2019 – 2023

Pamukkale Üniversitesi (PAÜ), Türkiye

LANGUAGES

English (Professional) · Turkish (Professional) · Persian (Native)