

ANGELO SHAHEEN

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Application Manager | Automation Engineer | Full-Stack + AI Developer | Linux/Docker | Embedded Product Builder

PROFESSIONAL PROFILE

Application Manager and software-focused IT professional with experience in financial applications, process automation, API integrations, SQL/SSMS data work, Linux/Docker infrastructure, AI-assisted development workflows, embedded prototyping, and full-stack product development. At PRA Group, developed and maintained business applications such as Debtrak, automated invoice/legal/archive workflows, integrated government/external APIs, and built workplace automation tools in C#, Python, PowerShell, and C++. Outside work, built and operate a large self-hosted server ecosystem and startup-style products spanning AI education tooling, agent orchestration, ML scoring, hardware/firmware, school-management platforms, and internal developer platforms.

CORE TECHNICAL SKILLS

Languages & Automation: C, C++, C#, Python, PowerShell, Java basics, Arduino/C-style firmware, CLI tooling

Frontend & Product: Next.js, React, TypeScript, dashboards, admin panels, multilingual UIs, landing pages

Data & Databases: SQL, SSMS, Microsoft SQL Server, PostgreSQL, TimescaleDB, Supabase SQL, schema/query debugging, Redis

AI Engineering & Agents: Codex CLI, OpenCode, Claude/Claude Code, OpenClaw, Ollama/local LLMs, skills/agents, RAG/source-grounded generation

Enterprise Automation: Outlook automation, email-to-PDF, batch printing, Active Directory utilities, Jira monitoring, Selenium, Power Automate

Backend & APIs: FastAPI, Express, PHP/Apache, REST APIs, government/external APIs, workers, schedulers

Infrastructure & DevOps: Linux, Docker/Compose, Nginx/Apache, NPM, DNS, domains, SSL/TLS, staging stacks

Security & Identity: Authentik, Authelia, Vaultwarden, reverse-proxy access control, encrypted storage

Embedded & Hardware: ESP32-C-class microcontrollers, Arduino firmware, sensors, board prototyping, hardware/software integration

Dev Tools & Delivery: Azure DevOps Services, GitHub, Git/branching, Visual Studio, repo publishing, issue tracking, CI/CD-style workflows

AI ENGINEERING & AGENT WORKFLOWS

- Hands-on AI development workflow using Codex/Codex CLI, OpenCode, Claude/Claude Code-style CLIs, self-hosted OpenClaw sessions, local Ollama models, project-specific instructions, skills, and custom agents for planning, coding, refactoring, testing, and documentation.
- Integrated AI directly into products: Shkofit lesson-deck generation, homework/exam creation, source-grounded citations, grading/rubric support, PPTX generation, visual selection, multilingual content, and quality-check pipelines.
- Built agent-oriented systems such as Agent Weaver/CodeChan with provider routing, repo/source-code context loading, task boards, live execution logs, and sandboxed repo-writing automation for AI-assisted development.

PROFESSIONAL EXPERIENCE

Application Manager / IT Technician | PRA Group - Duisburg, Germany

2023 - Present

- Started as an IT Technician for 4 months, then continued as Application Manager for approximately 1.6 years, developing, maintaining, and supporting company applications including Debtrak in a financial-services environment.
- Used SQL extensively in SQL Server Management Studio (SSMS) for database queries, data investigation, reporting support, validation, troubleshooting, and controlled work on financial-application data.
- Worked heavily with Azure DevOps and GitHub for repository management, source control, project/tool delivery, code publishing, issue tracking, and maintaining automation projects across workplace and private development.
- Developed automation tooling with C++, PowerShell, Python, and C# to reduce repetitive work and improve reliability across invoice, legal, archive, Active Directory, printing, file-transfer, ticket-monitoring, and operations workflows.
- Integrated the new Polish government API to automate communication with government systems and external companies, including sending, receiving, and processing invoice-related data.
- Built PRA/workplace tools including Outlook email-to-PDF conversion, mass file transfer with logging, batch print scheduling, Active Directory role/user utilities, and Jira ticket monitoring with Teams/email notifications.
- Worked with financial application workflows where reliability, data accuracy, auditability, access control, and controlled change management are important.
- Received an internal innovation certificate and SharePoint recognition post for automation and improvement work delivered while working part-time.

Founder / Hardware, Firmware & Software Developer | SmrtStand - University startup project

2024 - Present

- Designed and built the smart headset-stand hardware prototype, including board/electronics work, ESP32-C/Arduino firmware, sensor-based headset detection, and hardware/software integration with a companion control application.
- Built the SmrtStand website and product story around automatic audio switching between headset, speakers, AirPods, and other devices, with USB hub, wireless charging, RGB control, voice commands, AI audio-profile, and live-translation concepts.
- Won 2nd place in a university startup competition, received one year of business courses/training, created business plans and pitch materials, and presented the product at multiple conventions and startup events.

SELF-HOSTED INFRASTRUCTURE

- **Private Linux server platform:** Built from zero: Linux setup, domain/DNS configuration, reverse proxy routing, SSL certificates, Docker/Compose, volumes, internal networks, and production/staging-style stacks.
- **Operations, security, and identity:** Runs Authentik, Authelia, Vaultwarden, Nginx Proxy Manager, Falco/watchtower-style maintenance, protected web apps, encrypted secrets, and controlled access.
- **Developer and business services:** Runs Mailcow, Forgejo, Woodpecker CI agents, OpenVSCode, JupyterLab, Portainer, SonarQube, Nextcloud, OnlyOffice, Guacamole, Kasm, Supabase/PostgreSQL/Redis with SQL-based app data, Ollama/local AI, and self-hosted AI-agent experiments.
- **Database and data-platform work:** Uses PostgreSQL/Supabase SQL across private projects for application schemas, data validation, query troubleshooting, role/permission data, dashboards, backend features, and full-stack product workflows.
- **Media and knowledge services:** Operates Jellyfin with automated episode/media updates through the Arr stack plus Jellyseerr, Sonarr, Radarr, Prowlarr, Bazarr, Kavita, Komga, Navidrome, Suwayomi, and related workflows.

SELECTED TECHNICAL PROJECTS

Tectura Studio | Full-stack, RBAC, Supabase/PostgreSQL SQL, payments, school dashboard

Current full-stack build for a pre-university architecture preparation company: marketing site, backend, dashboard, role-based school system for admins/teachers/students, homework, exams, attendance, classes, Grow Israel payment workflows, and SQL-backed school records/permissions.

Shkofit.ai | TypeScript, AI pipeline, agents, PPTX, citations, Supabase/PostgreSQL data

AI-powered classroom operating system with source-grounded lesson decks, homework/exam/quiz generation, grading/rubric support, multilingual content, citations, visual selection, PPTX quality checks, school workflows for roles, classes, submissions, grades, libraries, and SQL-backed educational data.

Envelopee / Inviteify / SaveADate | PHP/Apache, Stripe, CSV/XLSX, messaging

Digital invitation platforms for weddings, birthdays, graduations, baby showers, and corporate events with event pages, premium templates, CSV/XLSX guest import, private links, RSVPs, Stripe payments, multilingual invite variants, and email/WhatsApp messaging through hardened PHP/Apache containers.

Agent Weaver / CodeChan | React, TypeScript, Express, AI agents

Visual multi-agent orchestration dashboard for AI-assisted development with React/TypeScript canvas, Express orchestration API, model-provider routing, live execution logs, task boards, repo connector nodes, GitHub/source-code context loading, and sandboxed repo-writing automation.

Compose Manager | Docker Compose, UI, lint/merge

Server-side Docker Compose management UI that scans mounted server directories for compose files, lists stacks, opens compose files in the browser, supports file updates, and exposes merge/lint endpoints for maintaining a large self-hosted container environment from one internal dashboard.

AuctionScanner / GoblinBid | FastAPI, Next.js, Celery, Redis, PostgreSQL/TimescaleDB, Supabase SQL, ML, Ollama

World of Warcraft auction-house intelligence platform that scans market data, tracks item and WoW Token prices, analyzes SQL-backed price history, and generates ranked trading signals using ML scoring and local LLM/Ollama-assisted insights, with alerts, portfolio tracking, addon, and desktop companion.

WantViews | Docker, Chrome containers, proxies, Mailcow, Cloudflare

Containerized browser-session platform with isolated Chrome environments, user-provided proxy routing tests, streamed browser sessions, encrypted proxy storage, Mailcow mailbox automation, Cloudflare DNS automation, signup-verification tooling, worker services, and Docker-managed browser containers.

PRA Challenge | Strava API, schedulers, dashboards

Gamified team step-tracking and Strava challenge platform with private codes, onboarding, admin team management, multilingual UI, leaderboards, realm/progression goals, manual activity conversion, and automated Strava syncing through a dedicated scheduler container.

Jellyfin Federation / JF Brain + JF Agent | Jellyfin, WebDAV, WireGuard-style access

Experimental Jellyfin federation system connecting remote media libraries through invite-based agents, WireGuard-style peer access, read-only WebDAV media serving, .strm pointer writing for Jellyfin libraries, central brain policies, and remote media sharing without copying full libraries.

YTWeb | FastAPI, yt-dlp, SSE, media workflows

Self-hosted YouTube download manager with FastAPI web UI, yt-dlp integration, live server-sent event logs, cookie upload/admin tooling, MP3/audio conversion, concurrency controls, and safe output-directory restrictions for managing media downloads directly on the server.

ADDITIONAL LINKEDIN & WORKPLACE AUTOMATION PROJECTS

Extra PRA/portfolio tools published or documented on LinkedIn/GitHub, focused on C#, Python, Outlook automation, Active Directory, Jira/SLA monitoring, printing reliability, file operations, Azure DevOps, GitHub, Visual Studio, Selenium, and Power Automate.

Email to PDF Converter | Tool to convert open/current and incoming Outlook emails together with all attachments into one combined PDF and send the result to a specified directory with one button; built for Outlook-only workflows and document-handling automation.

Aug 2024 | C#, Outlook, Azure DevOps | Repo: github.com/AngeloSha/Ascron-with-preview

Mass File Transfer Tool with Logging | Tool that lets users designate source and destination paths for mass file transfer with accurate logging for position tracking, progress visibility, and error tracking, improving auditability and recovery for large transfer jobs.

Jul 2024 | Associated with PRA Group | C#, Visual Studio | Repo: github.com/AngeloSha/File-Transfer

Active Directory Role Copier | GUI utility that copies roles from a source Active Directory user to a destination user, reducing repetitive permission-management work and helping standardize onboarding or role-transfer tasks.

C#, Visual Studio | Repo: github.com/AngeloSha/Active-Directory-Role-Copier

Jira Ticket Tracker | Jira/incident monitoring tool that scans the HTML incident page, retrieves ticket number, title, and description for incoming tickets, and sends alerts to email and a chosen Microsoft Teams channel; built in both Python and C# versions to help keep SLA response times under control.

Associated with PRA Group | Python, C#, Selenium, Power Automate, Teams/email notifications

Audio Over Network | Audio forwarding tool that redirects audio outputs to another PC or virtual PC when Virtual Desktop does not support more than one forwarded audio output; works best with a virtual audio driver and uses a source-PC sender plus remote/virtual-PC receiver.

Jul 2024 | Python | Sender/receiver audio forwarding

Printer Manager Software | Workplace batch-printing and print-scheduling software designed to avoid relying on Adobe Acrobat Reader, improving reliability, speed, and bug resistance; includes automatic printing schedules, shared online time slots between team members to track printer occupancy, UI screens, and logging for error/print tracking.

Jun 2024 | Associated with PRA Group | C#, Azure DevOps, Visual Studio | Repo: github.com/AngeloSha/Printer-Mangement.git

Active Directory User Manager | GUI tool that shows basic Active Directory user information and supports practical admin actions such as adding roles and changing passwords from a focused internal-management interface.

C# | Repo: github.com/AngeloSha/Active-Directoy-User-Manager-git

EDUCATION & BUSINESS TRAINING

- **B.Sc. Computer Engineering, ISE - Software Engineering specialization:** Universität Duisburg-Essen, Duisburg, Germany | 2020 - ongoing
- **Startup/business training:** One year of business courses awarded after SmrtStand startup-competition success; experience with business plans, pitching, product positioning, competitor analysis, customer/user thinking, and convention demos.
- **Technology High School:** Notre Dame Mielya, Israel | Physics and mechatronics orientation | 2017 - 2019
- **German language studies:** Kapito, Münster, Germany

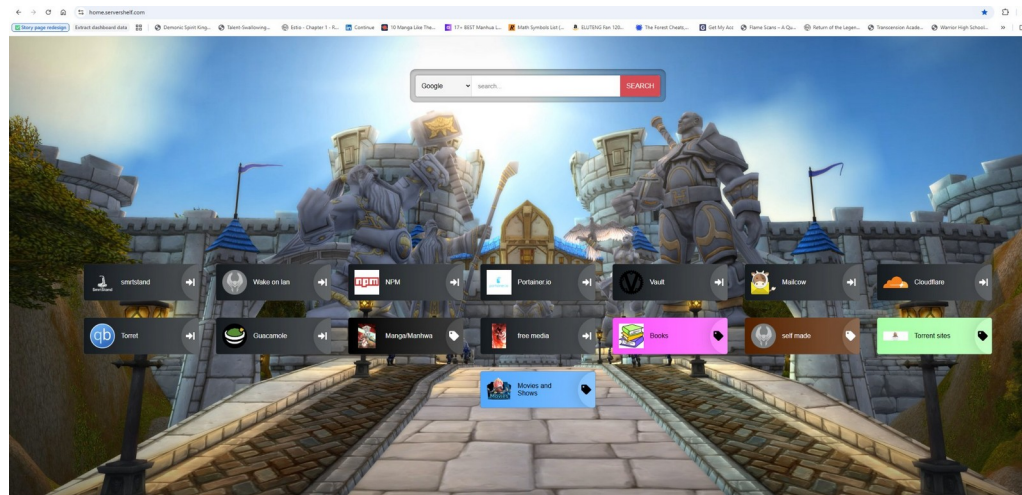
LANGUAGES

Arabic: native | English: very good | German: very good | Hebrew: very good | Japanese: A1

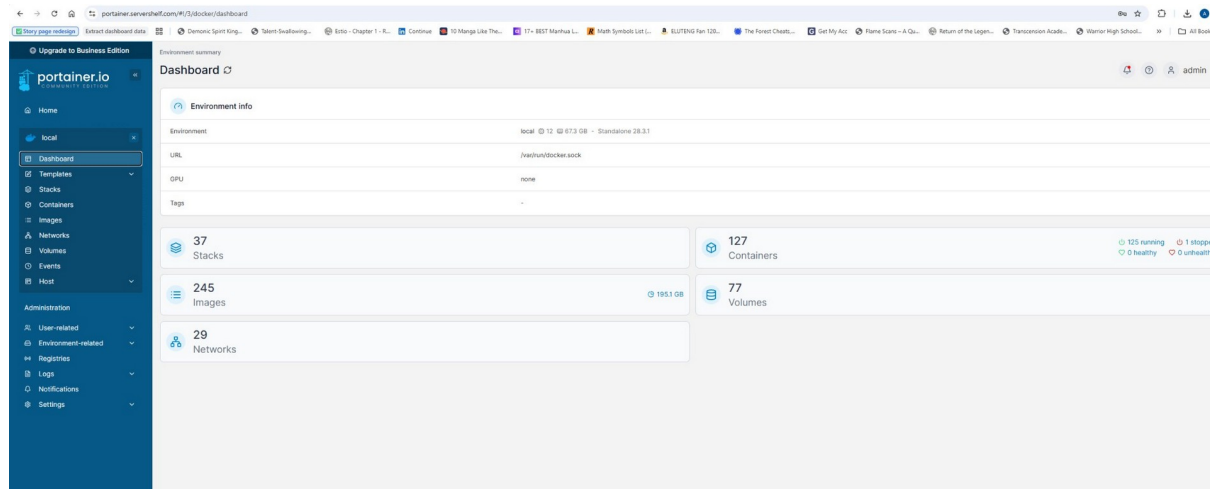
Portfolio Evidence & Project Screenshots

Selected visual proof of self-hosted infrastructure, product demos, AI classroom software, startup recognition, and PRA Group innovation recognition. This appendix is intended as a portfolio supplement to the technical CV.

Self-hosted services portal - internal dashboard for reverse-proxied apps, server tools, media services, Mailcow, Vaultwarden, Portainer, Cloudflare and custom projects.

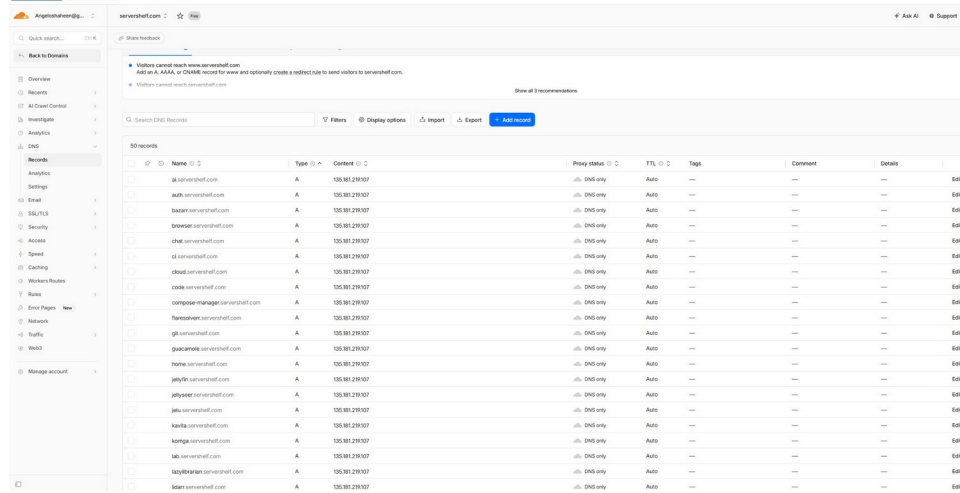


Portainer dashboard - Docker environment showing 37 stacks, 127 containers, 245 images, 77 volumes and 29 networks on a standalone Linux host.



Self-Hosted Infrastructure

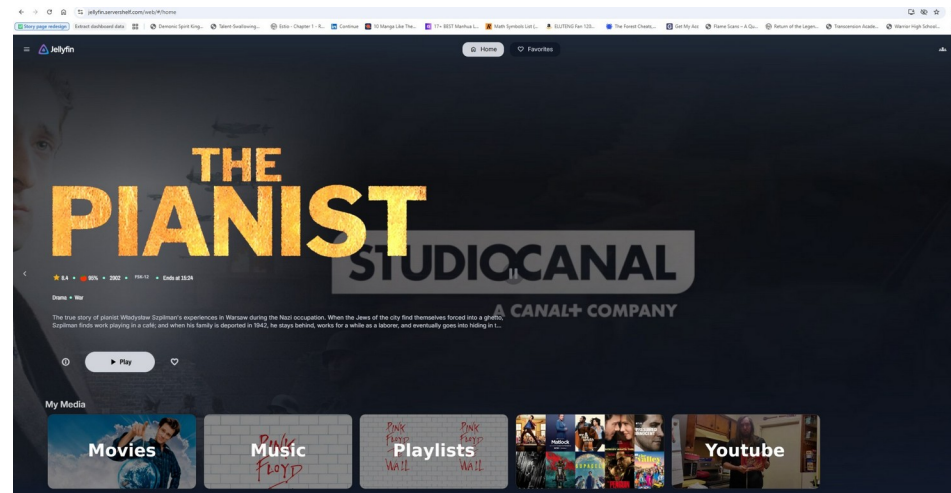
Cloudflare DNS management - subdomain routing for self-hosted services, project environments, reverse proxy endpoints and public/private web apps.



The screenshot shows the Cloudflare DNS management interface for the domain servershell.com. The interface displays a list of 50 DNS records, all of which are A records pointing to the IP address 192.168.29.107. The records are organized into a table with columns for Name, Type, Content, Proxy status, TTL, Tags, Comment, and Details. The records include subdomains such as @, analytics, settings, email, irc-fs, security, access, speed, cd, caching, workers, rules, files, compose-manager, flaresolverr, gh, guacamole, home, jellyfin, jellyseer, jels, karta, konga, lab, lazyload, and selen.

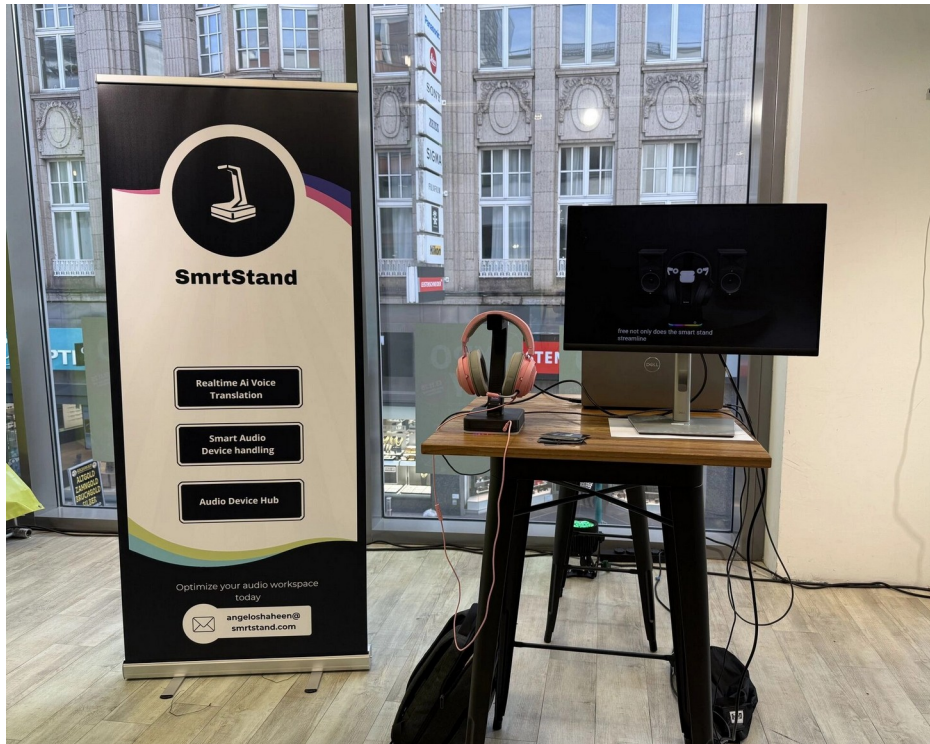
Name	Type	Content	Proxy status	TTL	Tags	Comment	Details
@	A	192.168.29.107	DNS only	Auto	---	---	---
analytics	A	192.168.29.107	DNS only	Auto	---	---	---
settings	A	192.168.29.107	DNS only	Auto	---	---	---
email	A	192.168.29.107	DNS only	Auto	---	---	---
irc-fs	A	192.168.29.107	DNS only	Auto	---	---	---
security	A	192.168.29.107	DNS only	Auto	---	---	---
access	A	192.168.29.107	DNS only	Auto	---	---	---
speed	A	192.168.29.107	DNS only	Auto	---	---	---
cd	A	192.168.29.107	DNS only	Auto	---	---	---
caching	A	192.168.29.107	DNS only	Auto	---	---	---
workers	A	192.168.29.107	DNS only	Auto	---	---	---
rules	A	192.168.29.107	DNS only	Auto	---	---	---
files	A	192.168.29.107	DNS only	Auto	---	---	---
compose-manager	A	192.168.29.107	DNS only	Auto	---	---	---
flaresolverr	A	192.168.29.107	DNS only	Auto	---	---	---
gh	A	192.168.29.107	DNS only	Auto	---	---	---
guacamole	A	192.168.29.107	DNS only	Auto	---	---	---
home	A	192.168.29.107	DNS only	Auto	---	---	---
jellyfin	A	192.168.29.107	DNS only	Auto	---	---	---
jellyseer	A	192.168.29.107	DNS only	Auto	---	---	---
jels	A	192.168.29.107	DNS only	Auto	---	---	---
karta	A	192.168.29.107	DNS only	Auto	---	---	---
konga	A	192.168.29.107	DNS only	Auto	---	---	---
lab	A	192.168.29.107	DNS only	Auto	---	---	---
lazyload	A	192.168.29.107	DNS only	Auto	---	---	---
selen	A	192.168.29.107	DNS only	Auto	---	---	---

Jellyfin media server - self-hosted media interface connected to automated library, download, metadata and streaming workflows.



SmrtStand Startup Evidence

SmrtStand booth and prototype demo - product presentation with hardware stand, screen demo and startup/event branding.



GUIDE Start-up Your Idea certificate - Smartstand/SmrtStand, 2nd place in the university start-up idea competition.



Preis Ideenwettbewerb - Kategorie BASIC

Smartstand
Angelo Shawkey Shaheen

verliehen durch

Bernhard Schröder
Leiter GUIDE



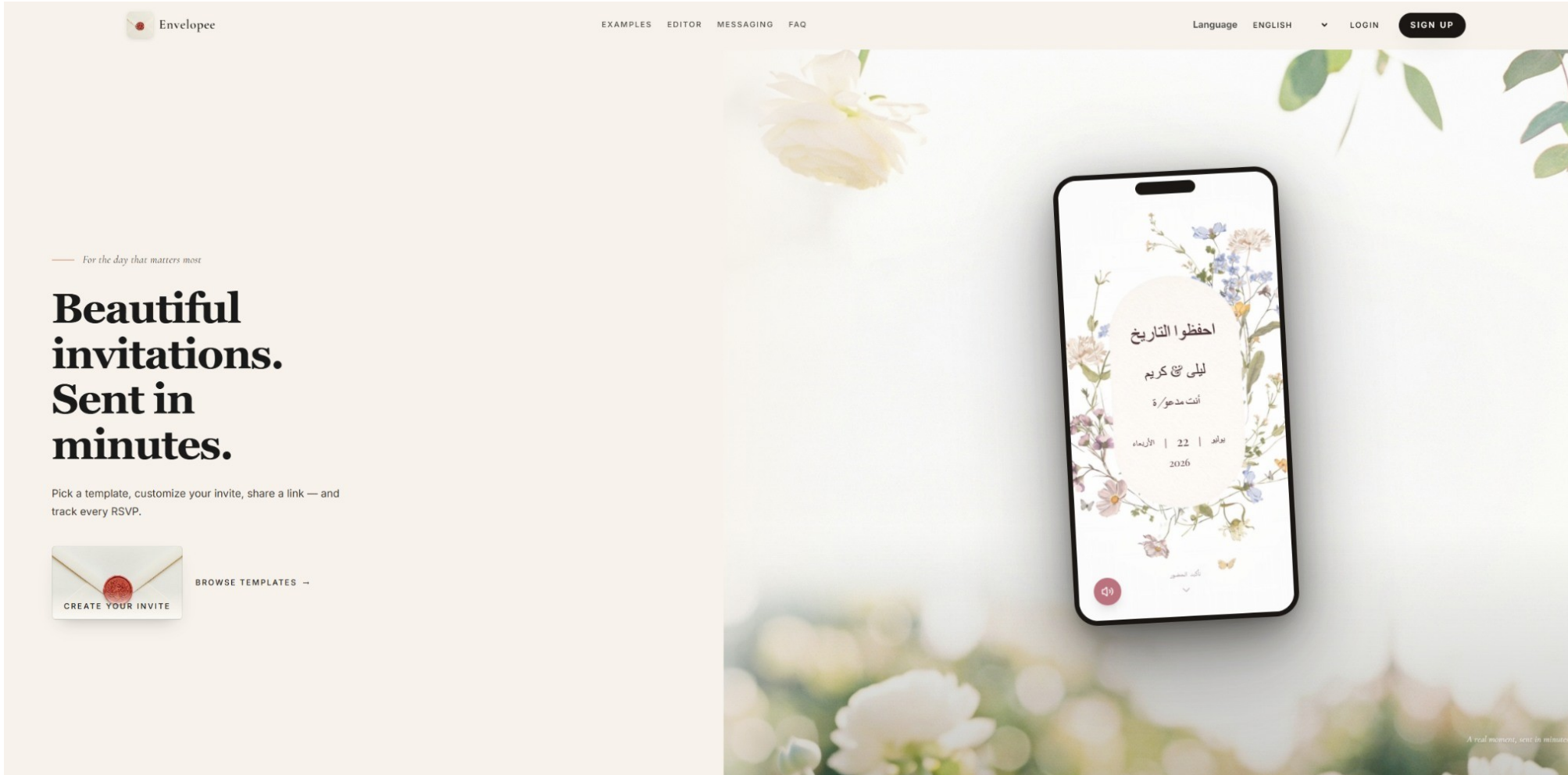
PRA Group Recognition

PRA Group Innovation & Impact Award - recognition for automation, innovation and process-improvement work.



Envelopee Product Screenshot

Envelopee digital invitations - public landing page for multilingual invitation templates, editor, messaging, account flows and RSVP-focused event creation.



GoblinBid / AuctionScanner Product Screenshot

GoblinBid / AuctionScanner - WoW auction-house intelligence dashboard with live model status, monitored markets, ML-assisted trade recommendations, risk labels, filters, alerts and addon payload workflow.

The screenshot displays the GoblinBid / AuctionScanner dashboard. The left sidebar contains navigation links: Dashboard, WoW Token, Items, Recommendations (highlighted), Portfolio, History, News, Account, and Settings. The main content area is titled "Recommendations" and includes a "Live recommendation engine" section with a "LIVE ML" indicator. Below this is the "Current ML Evidence" section, which provides a summary of the model's performance, including "Matured proof waits for each trade deadline" and "Matured ML outcomes" (7030/20). The "Filter Recommendations" section allows users to refine results based on intent (e.g., "I want safe gold", "I want fast flips"), one-click modes (e.g., "I only want sells", "Hide risky picks", "Show buys and sells"), and narrow results quickly (e.g., "Action", "Trade style", "Realm", "Expansion", "Results per page"). The "Results" section is currently empty, and the "Sell Opportunities" section is also empty. The dashboard includes various interactive elements like "Check Targets Now", "Enable Browser Alerts", "Copy Addon Payload", and "Refresh View".