

Andrii Shafar

Software Engineer & Applied Researcher

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Product-minded software engineer with six years of evidence-backed work spanning fundraising technology, realtime AI interviewing, mental-health research platforms, cloud infrastructure, developer tooling, and applied research. Comfortable moving from public interfaces and payment flows to backend services, data pipelines, multi-tenant authorization, and delivery systems.

6+

YEARS SHIPPING PRODUCTION PRODUCT SYSTEMS

10.9k+

AUTHORED COMMITS REVIEWED FOR THIS RESUME

4

SELECTED PEER-REVIEWED PUBLICATIONS

PRODUCT ENGINEERING

DISTRIBUTED BACKEND SYSTEMS

FRONTEND ARCHITECTURE

TYPESCRIPT & JAVASCRIPT

PYTHON

GO

PAYMENTS & COMPLIANCE

AI & REALTIME SYSTEMS

DATA PIPELINES

CLOUD INFRASTRUCTURE

DEVELOPER TOOLING

RESEARCH ENGINEERING

Selected professional experience

EVIDENCE-BACKED FEATURE OWNERSHIP

Charidy

FUNDRAISING PLATFORM ENGINEERING

2020 - Present

Six years of full-stack product work across nine services and applications, from donor-facing campaign and checkout flows to backend services, identity and sign-in, operations tooling, integrations, and AI-assistant access through MCP.

Expanded an OAuth-protected MCP server for AI assistants to 77 read and write tools spanning campaigns, teams, donations, exports, receipts, and reports, with approval-gated actions, opt-in donor-data scopes, and container-tested permission checks.

Built and evolved a component-driven fundraising platform across Nuxt generations, including moving the admin app from Vue 2 to Nuxt 4, and a skin-based Vue 3 checkout with reusable multi-step flows, attribution, and localization.

Integrated and hardened Stripe wallets and 3DS, PayPal, PayArc, Cardknox card and ACH, raffle preauthorization, and configurable international tax-compliance and receipt workflows.

Implemented peer matching, team nominations, auctions, raffle registration, prize wheels, projector and live-feed experiences, with server-side eligibility and inventory protections.

Built a standalone OAuth and OpenID Connect authorization server with partner entitlements and rotating signing keys, plus a hosted sign-in offering email and phone codes, two-factor checks, and origin-bound tokens for embedding sites.

Delivered campaign, team, and donation operations with contact management, secure analytics, custom reports, durable export jobs, queued campaign-total aggregation, and watermark-driven search-index sync that recovers from outages without gaps.

Built email, SMS, and WhatsApp outreach with reusable audiences, templates, asynchronous delivery, opt-in flows, and provider callbacks, plus continuous HubSpot CRM sync with setup reconciliation, entity linking, and guarded bulk operations.

GO

VUE & NUXT

TYPESCRIPT

PAYMENTS

OAUTH & OPENID CONNECT

MCP

AWS & QUEUES

CRM & MESSAGING

Lemmi

AI INTERVIEWING AND PLATFORM ENGINEERING

2026 - Present

Backend, frontend, and developer-platform work for realtime voice interviewing, interview retakes, durable background processing, speech-to-text, integration testing, and reusable AI engineering workflows.

Built interview retakes end to end: lineage-tracked attempts, a Retry flow in the Angular client, and a fail-open pipeline that feeds earlier attempts' feedback into the realtime interviewer so covered areas are not re-asked.

Modernized the Python platform around uv, Ruff, basedpyright, and Alembic, then replaced the legacy mock-based suite with a Testcontainers harness running the real app against migrated PostgreSQL and containerized service fakes.

Built configurable realtime and batch speech-to-text pipelines and improved voice interviews with echo suppression, resilient WebSocket reconnects, and buffered-audio recovery.

Created a reusable AI-engineering toolkit with orchestration and review workflows, later repackaged as native Claude Code and Codex plugin packs with bundled file search, flow mapping, and agent-led installation.

Designed an owner-scoped background-job platform with durable state and event delivery, registry-based dispatch, frontend integration, admission control, and cross-user authorization safeguards.

Pinned defects found by the new suite as strict expected-failure tests and fixed about 40, covering WebSocket reconnection, connection limits, audio ordering, coaching flows, and caller identity taken only from verified tokens.

Refactored realtime interview and voice-test sessions onto shared event, action, and shutdown primitives, and delivered automated interview testing with generated speech, PCM injection, recording storage, and diagnostic exports.

PYTHON

FASTAPI

ANGULAR

REALTIME AUDIO

WEBSOCKETS

POSTGRESQL

TESTCONTAINERS

CLAUDE CODE

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RESEARCH PLATFORMS, SURVEY PRODUCTS, AND CLOUD DELIVERY

Cross-stack engineering for survey research, mental-health scoring, multi-tenant reporting, guided workforce journeys, a paid self-service group assessment, template-driven launch and export APIs, and AWS delivery infrastructure.

Built the self-service Group MHQ product end to end: a Go launch API, Stripe checkout with seat-based pricing, OAuth PKCE membership sign-in with free-launch entitlements, aggregated group scoring, retry and refund recovery, and PDF reports.

Delivered machine-to-machine survey exports and launch APIs with stable revision identity, deterministic CSV contracts, language-independent question codes, template launch and relaunch, project-scoped service accounts editable in place, and ownership guards.

Built secure multi-tenant identity and administration spanning bearer-token sessions, password recovery, organizations, teams, invitations, self-service workspace creation, revision-level authorization, and scoped, revocable sign-in for AI agents.

Designed AWS CDK infrastructure with managed containers and PostgreSQL, HTTPS edge delivery, keyless CI authentication, and cost controls, and cut CI/CD time and spend across seven repositories through ARM runners, artifact reuse, and immutable releases.

Re-architected a Python reporting application into a typed uv monorepo with a separated API, generated client, modern React frontend, migration-managed PostgreSQL and RBAC, and containerized delivery.

Implemented role-scoped reporting with external survey synchronization, sync monitoring, localized-survey recognition, live TeamQ and OrgQ journeys, and in-app template launches.

Expanded the MHQ survey platform with side-by-side revised scoring via a batch Lambda, cross-survey branching redirects, editable templates, video statements, conditional report blocks, accurate drop-off analytics, and an invite-only Research Calculator.

- GO
- REACT & NEXT.JS
- PYTHON & UV
- AWS CDK
- POSTGRESQL
- BIGQUERY & S3
- STRIPE
- GITHUB ACTIONS

Selected projects

PUBLIC WORK

Tourism Risk Platform

PYTHON - FUZZY SYSTEMS - DECISION SUPPORT

An intelligent analytical system for evaluating travel-safety risk across individual, regional, and national levels.

Stavka

TYPESCRIPT - LLM AGENTS - GAME SYSTEMS

An LLM-powered strategic orchestration layer that drives a dynamic AI opponent inside Arma Reformer.

bwssh

PYTHON - SSH - SECURITY TOOLING

A Bitwarden-backed SSH agent built to keep key access convenient without loosening the security model.

Open-source tools

115 PUBLIC REPOSITORIES - GITHUB SINCE 2016

Developer utilities and experiments spanning terminal themes, Vue components, editor tooling, Rust, Go, and native apps.

Uzhhorod National University

POSTGRADUATE RESEARCHER AND TEACHING SUPPORT

Applied AI, fuzzy models, and decision-support systems for tourism in the Department of Software Systems.

Research publications

SELECTED

2025

Intellectual-analytical platform for assessing the security risk of tourist travel

Scientific Journal of the Ternopil National Technical University, 120(4)

2025

Model of expert assessment of the level of influence of human resources on tourist satisfaction with the destination

Herald of Khmelnytskyi National University. Technical Sciences, 349(2)

2024

A neuro-fuzzy model for destination evaluation and choice taking into account the target needs of the tourist

Computer Science and Applied Mathematics

2024

Informational and analytical model for assessing the level of tourist satisfaction with accommodation facilities

Management of Development of Complex Systems, 57

Contact and profiles

OPEN TO MEANINGFUL WORK

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This professional history was reconstructed from 10,957 authored, non-merge commit objects across 42 local repositories. Merge commits and a different contributor with a similar name were excluded. Dates describe the available authored-commit evidence, not formal employment records.