

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

8.5k+

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, operations tooling, integrations, and AI-assisted workflows.

Built and evolved a component-driven fundraising platform across Nuxt generations and a skin-based Vue 3 checkout with reusable multi-step flows, attribution, localization, and build-time gateway composition.

Delivered campaign, team, and donation operations with contact management, secure analytics, custom reports, streaming exports, and queued campaign-total aggregation.

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

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

Built email and SMS outreach with reusable audiences, templates, drafts, asynchronous delivery, provider callbacks, audience safeguards, and operational health diagnostics.

Designed OAuth-protected AI and MCP integrations plus HubSpot CRM automation with typed tools, approval-gated actions, setup reconciliation, entity linking, and guarded bulk operations.

GO

VUE & NUXT

TYPESCRIPT

PAYMENTS

AWS & QUEUES

CRM & MESSAGING

Lemmi

AI INTERVIEWING AND PLATFORM ENGINEERING

2026

Backend, frontend, and developer-platform work for realtime voice interviewing, durable background processing, speech-to-text, production operations, and reusable AI engineering workflows.

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.

Refactored realtime interview and voice-test sessions onto shared event, action, runtime-state, and ordered-shutdown primitives to reduce coupling across workflows.

Modernized the Python platform around uv, Ruff, basedpyright, Alembic, and honest CI gates; added structured crash visibility and hardened authorization and validation boundaries.

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

Delivered full-stack automated interview testing with generated speech, PCM injection, lifecycle controls, local and cloud recording storage, and diagnostic exports.

Created a reusable AI-engineering toolkit with orchestration and review workflows, automated installation, typed Python APIs, and Claude Code and Codex plugin packaging.

PYTHON

FASTAPI

ANGULAR

REALTIME AUDIO

WEBSOCKETS

POSTGRESQL

SapienLabs

RESEARCH PLATFORMS, REPORTING, AND CLOUD DELIVERY

2026 - Present

Cross-stack engineering for survey research, mental-health scoring, multi-tenant reporting, machine-to-machine exports, guided workforce journeys, and AWS delivery infrastructure.

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.

Built secure multi-tenant identity and administration spanning sessions, password recovery, organizations, teams, invitations, self-service workspace creation, and revision-level authorization.

Expanded the MHQ survey and research platform with lifecycle controls, accurate drop-off analytics, mobile interaction safeguards, an embeddable Web Component, and an invite-only CSV Research Calculator.

Designed and hardened AWS CDK infrastructure using managed containers and PostgreSQL, HTTPS edge delivery, keyless CI authentication, conditional rollouts, and workload-aware cost controls.

Implemented role-scoped reporting and external survey synchronization with encrypted organization credentials, operational sync monitoring, curated trends, and live TeamQ and OrgQ journeys.

Delivered machine-to-machine survey exports and a service-account console with scoped access, one-time credentials, token rotation, stable historical revision identity, deterministic CSV contracts, and pagination.

GO

REACT & NEXT.JS

PYTHON & UV

AWS CDK

POSTGRESQL

BIGQUERY & S3

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 Reforger.

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 8,539 authored, non-merge commit objects across 20 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.

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