# Hrayr Zohrabyan

**AI Workflow Automation & Front-end Engineer. IT and Cybersecurity for NGOs and Media. Digital Humanities.**

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## Summary

AI workflow automation and front-end engineer, in IT since 2016. I work in four areas: AI automation, IT and cybersecurity for NGOs and media, digital humanities and research software, and web development.

- **AI workflow automation.** I build pipelines and agents that take over repetitive work: collecting data, classifying and summarising content, drafting reports and publications. I design the workflow and check its output against manual review.
- **IT and cybersecurity for NGOs and media.** Information security audits, account and device hardening, incident response, IT administration. I work with newsrooms and civil-society organisations that have no IT department of their own.
- **Digital humanities.** Platforms and data portals for research teams, including an EU Horizon Europe project at the American University of Armenia: AI transcription of archival documents (a corpus of about 1,000 handwritten pages), research databases, digital archives, maps. One of them is a public database of 45,000+ victims of political repression. I came into IT from the archives: Oriental studies at Yerevan State University, then several years in the state archives of Armenia and Georgia documenting Soviet-era political repressions.
- **Web development.** React, Next.js and TypeScript front ends, Python and WordPress back ends, AWS and Cloudflare. Largest migration: a news archive of 100,000+ articles. Several years of UI work in iGaming, including as Senior UI Developer.

## Experience

### Web Developer & AI Automation Engineer

SpeedX Media, Los Angeles, remote | 2026 – Present

Remote developer at a Los Angeles digital agency.

- Build and maintain client websites on Webflow, WordPress and Next.js.
- Develop AI workflow automation: pipelines that turn public data into ready-to-publish content for the agency's teams.
- Build web tools and email templates for client campaigns.
- Support the agency on technical SEO and account security.

### IT Administrator & Cybersecurity Specialist

Cultural Heritage Research Center SNCO, Yerevan, remote | 2026 – Present

IT administration and information security for a state research centre.

- Administer the centre's IT infrastructure at two sites, about 45 workstations: network, storage and remote support.
- Responsible for information security: access management, backups, incident handling.
- Maintain the IT asset register and prepare compliance and procurement documentation.
- Support the digital side of the centre's academic publishing and grant applications.

**Researcher & Developer, STREACS project (Horizon Europe)**
American University of Armenia, Yerevan | 2026 – Present

Member of the research group "Electricity Market Liberalization under High VRE" within STREACS, an EU-funded Horizon Europe project at the Acopian Center for the Environment.

- Designed and built the group's interactive data portal: power market structures in 230 countries from 1989 to 2024, the growth of solar and wind generation, and a detailed case study of Armenia's electricity market.
- Collect, clean and combine data from the World Bank, Our World in Data, the Armenian regulator and the Armenian Energy Exchange.
- Maintain the portal and prepare it for publication on the project's website.
- Took part with the project team in the European Sustainable Energy Week 2026 in Brussels.

**Lead Developer & System Architect (Digital Humanities)**
American University of Armenia, Yerevan | 2026

Lead developer of the digital platform for a research project on early 20th-century Armenian press and correspondence.

- Designed and maintained the project database and the research team's working interface.
- Integrated AI tools for transcription of handwritten documents (a corpus of about 1,000 pages) and extraction of names, places and events.
- Built mapping and data export tools for analysis and publication.
- Supervised technical workflows and coordinated with the research assistant.

**IT Specialist, Digital Security & IT Consultant**
CyberHUB-AM / Media Diversity Institute – Armenia, Yerevan | 2025 – Present

- Front-end development of MediaScoper, an AI media monitoring platform for Armenian news and Telegram, and of moderAItor, an AI content moderation tool developed with the All for Equal Rights Foundation.
- Information security audits and consulting for media outlets and NGOs: accounts, devices, networks, websites and email.
- Monitoring of disinformation and election coverage: data collection, AI-assisted classification, monthly and weekly reports.
- Web development and support for the organisations' projects, including learning modules on child online safety (an MDI project for UNICEF).

**Independent Developer & IT Consultant**
Self-employed, Yerevan | 2016 – Present

Web development and IT consulting for media, NGOs, research institutions and small businesses.

- Websites and web applications from specification to launch and support (React, Next.js, WordPress).
- Content migrations (including a news archive of 100,000+ articles), custom WordPress plugins and integrations with two bank payment gateways (AmeriaBank vPOS, ACBA Bank vPOS).
- Research databases and digital archives, including the repression victims database for the Hazarashen centre (45,000+ records).
- Own products: armlaw (legal research assistant over 200,000+ Armenian legal acts), claude-toolkit (open-source plugins for Claude Code), Media Finder (Chrome extension, 1,000+ users).

**Full Stack Developer**
iGaming company (NDA), Remote | 2025

Landing pages and front-end components for gambling platforms; third-party integrations. Client and brand names under NDA.

**Senior UI Developer**
ArctX, Yerevan | 2021 – 2025

Front-end development for e-gaming brands (client names under NDA).

- Landing pages and promo sites, built from design to production.
- HTML5 banner campaigns and email templates.
- Internal tools and scripts that automated repetitive page builds.

**Payment Systems Monitoring Specialist, then HTML5 Developer**
Adjarabet.am, Yerevan | 2019 – 2021

Started in payment systems monitoring and moved to front-end work: HTML5 banners, landing pages and email templates for the brand's campaigns.

**IT Specialist**
Institute of Archaeology and Ethnography, NAS RA, Yerevan | 2021

Coordinated the creation of a digital archive and its website.

**IT Specialist**
Environment and Health NGO, Yerevan | 2020 – 2021

Website and HTML5 educational games.

**Archival Research Specialist**
Hazarashen Armenian Centre for Ethnological Studies, Yerevan | 2015 – 2020

Hazarashen Armenian Centre for Ethnological Studies and the Institute of Archaeology and Ethnography, NAS RA. Research in the state archives of Armenia and Georgia. Compiled lists of repressed persons and political prisoners from archival case files. Contributed to published memorial volumes and presented the findings at academic conferences.

## Education

**Yerevan State University**, Master's degree, Oriental Studies (Arabic Studies), 2014 – 2016

**Yerevan State University**, Bachelor's degree, Oriental Studies (Arabic Studies), 2008 – 2014

**Armenian Code Academy**, React, 2022 – 2023

**PicsArt Academy**, JavaScript, 2020

## Certificates

Claude Code in Action, Anthropic, March 2026

Cybersecurity Essentials, EU4Digital Academy / MinnaLearn, April 2026

Cybersecurity: Human Behaviour & Culture (Intermediate), EU4Digital Academy, April 2026

Top 10 Security Issues and Solutions, Part 1, EU4Digital Academy, April 2026

## Skills

**AI and automation:** Claude, Claude Code, Gemini, Whisper, Qdrant, Telethon, Playwright, pandas

**Front end:** React, Next.js, TypeScript, JavaScript, HTML5, Sass, Tailwind CSS, Vite, Astro, shadcn/ui, MUI, TanStack Query, Zustand, Framer Motion, Figma

**Back end and data:** Python, FastAPI, Node.js, NestJS, Express, PHP, PostgreSQL, MySQL, MongoDB, SQLite, Redis, AmeriaBank vPOS, ACBA Bank vPOS (ArCa)

**CMS and site builders:** WordPress, Elementor, Webflow, Wix, TinaCMS, Sanity, Open Journal Systems

**Cloud and infrastructure:** AWS Amplify, Amazon S3, CloudFront, DynamoDB, Lightsail, Cloudflare, Cloudflare Tunnel, Cloudflare Workers, Hetzner, Docker, Linux, Nginx, Apache, PM2, GitHub Actions, GitHub Pages

**IT and security:** Tailscale, MeshCentral, Synology, Bitwarden, Nmap, Google Workspace, Passkeys and 2FA, BitLocker, SPF / DKIM / DMARC

**Maps and charts:** D3.js, Chart.js, Recharts, Plotly, Mapbox, MapLibre

**Team tools:** GitHub, Slack, Asana, Trello, Telegram

## Languages

Armenian (Native), Russian (Fluent), English (Professional working (B2)), German (Elementary)