MERUZHAN ANTONYAN

Full-Stack Web & Mobile Engineer • React Native / React / Next.js / Node.js

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PROFILE

Full-stack web and mobile engineer with 6 years of commercial experience taking products from idea to launch. At a leading Armenian digital agency, grew from front-end into a full-stack role, building React Native apps and React / Next.js platforms with Node.js and Nest.js back-ends. On freelance products, works across the whole cycle: shaping business logic with clients, testing hypotheses, designing UI/UX with AI tools, building, integrating payments and maintaining after launch. Has also built a proprietary computer-vision system from scratch that runs entirely on CPU.

CORE SKILLS

Mobile: React Native, Expo, cross-platform iOS and Android apps, installable PWAs

Web: React, Next.js (SSR/SSG), TypeScript, JavaScript (ES6+), Redux, Zustand, Tailwind CSS, Styled Components, design systems

Back-end: Node.js, Nest.js, REST API design and integration, admin panels and back-office systems

Payments: Apple Pay, Google Pay, PayPal, ArCa and Armenian bank gateways, GetYourGuide booking payments

Product & Design: product discovery with clients, business logic, feature scoping, hypothesis testing, UI/UX design with AI tools, post-launch maintenance

Performance & SEO: Core Web Vitals (LCP, CLS, INP), Lighthouse / PageSpeed audits, bundle-size and load-time optimization

CI/CD & Tooling: CI/CD pipelines with GitHub Actions, Git, NPM, PNPM, Claude AI, Cursor

Motion: GSAP, Three.js / WebGL, Lottie, canvas

Languages spoken: Armenian, Russian, English

AI & COMPUTER VISION

Proprietary computer-vision system • built from scratch • current

Computer-vision system that recognises flowers and generates bouquet compositions.

- Designed the AI as a set of small specialised models working under one system, running entirely on CPU.
- Trained using Meta SAM 3 / SAM 3D and Google's computer-vision models; the result is about 200 MB versus about 4 GB for SAM 3D.
- Built from scratch: flower-head and contour detection, and distance estimation from contours.
- Gaussian-based 3D mesh that reconstructs the bouquet and models stem tension, e.g. how closely two rose heads can sit together.
- Identifies the specific flower variety, not just the species (a particular rose, not just "rose"), using open datasets.

Techniques: image segmentation (SAM 3 / SAM 3D), contour and object detection, 3D reconstruction, compact models for CPU inference, multi-model pipelines

EXPERIENCE

Full-Stack Web & Mobile Developer

2024 – 2026

Concept Studio • Yerevan, Armenia

One of Armenia's leading creative digital agencies, delivering high-end web experiences, interactive platforms and mobile apps for international clients.

- Built React Native mobile apps for agency clients: **Murakami City** (native food-ordering app), **Coffee Craft** (coffee shop app), **Siruk** (pet shop e-commerce app) and **NeoGym** (fitness app with real-time statistics and progress charts).
- Designed and built the **Inspector**, an internal no-code visual editing tool that lets designers and marketers change font sizes, images, spacing and other layout properties directly on live pages, removing a recurring engineering bottleneck from responsive-design iteration.
- Developed scalable TypeScript front-end architectures and reusable component systems used across multiple production projects, reducing duplication and speeding up delivery.
- Owned performance and SEO outcomes: SSR/SSG with Next.js, Core Web Vitals (LCP, CLS, INP) tuned through Lighthouse and PageSpeed Insights audits, and REST API integration.

- Built animation-heavy interfaces with GSAP, Three.js and Lottie for e-commerce and consumer-brand clients, and a text-based animation authoring tool that generates production animation code from a simple spec.
- Worked in Git-based CI/CD workflows alongside backend engineers, designers, motion teams and PMs across full delivery cycles.

Selected web projects

- **Murakami City** — e-commerce redesign (multi-language, flexible CMS) alongside the mobile app
- **IC Armenia** — website for the Investment Council of Armenia, an EBRD-backed SME reform platform
- **Arsenio Wine** — animation-heavy e-commerce with 3D product animation
- **Forum Mobility** — product site for a US EV-charging infrastructure company
- **Sunday Towers** — mobile-optimized luxury real-estate platform
- **Siruk** — pet shop e-commerce website
- **Minas Avetisyan Museum** — digital archive and museum for a renowned Armenian painter

Freelance Web & Mobile Developer (Contract)

2020 – 2024

Self-employed · Yerevan, Armenia

- Built and shipped mobile apps with React Native / Expo for business clients.
- Delivered websites, booking platforms and React web applications with REST API and payment integrations, from idea to deployment.
- Provided ongoing support: feature updates, bug fixes, SEO improvements and performance optimization.

FREELANCE PROJECTS & PRODUCTS

Involved from the idea stage, not only in development: turning client requirements into business logic and features, testing hypotheses, designing the UI/UX with AI tools, building, and maintaining after launch.

- **TALAR** (current) — custom bouquet builder and flower-shop marketplace for Armenia. Shapes product direction and business logic and develops the mobile app.
- **Mantashyants** — private web platform and mobile app for a business club, where members can apply to and invest in the club's projects.
- **Hola Tuk-Tuk** — booking website for an electric tuk-tuk tour company in Barcelona. Integrated PayPal and bank card payments, and set up receiving bookings and payments from GetYourGuide.
- **Blink Transfers** — multi-language booking website for a Barcelona airport-transfer and chauffeur company, with instant pricing and PayPal and bank card payments.
- **Koli** — family task and rewards app: parents assign tasks, children earn points and redeem them for rewards. Defined the points and rewards logic; built the React Native (Expo) app with a Nest.js backend, an in-app multi-game section (in development), and an admin panel for managing content and images; integrated Apple Pay, Google Pay and ArCa card payments.
- **Tsaghruk** — full-stack, installable PWA platform (React, Next.js, TypeScript, Tailwind, Nest.js). Owned front-end and back-end architecture, REST API design, business logic and CI/CD; integrated Apple Pay, Google Pay and ArCa card payments.

EDUCATION

Yerevan State University — Faculty of Informatics and Applied Mathematics 2018 – 2024