

Serhii Romanov

Senior Full-Stack Developer · TypeScript / React / Node.js

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PROFILE

Full-stack developer with 6+ years of building design tools and web applications. Currently a lead developer on **Control (cntrl.site)**, a browser-based freehand website builder. **Strong mathematical foundation** — an engineering degree behind daily work in computational geometry, linear algebra and coordinate-space transformations. I care about clean architecture, correctness and measurable performance.

CORE SKILLS

Languages	TypeScript, JavaScript (ES2023+), HTML5, CSS3
Frontend	React, Next.js, Gatsby (GraphQL), Redux, Tailwind CSS, Canvas / SVG, WebGL, Three.js, GSAP, Web Workers, Webpack
Backend	Node.js, NestJS, Express, REST APIs, WebSockets, MongoDB, PostgreSQL, Redis, BullMQ
AI	LLM API integration, streaming responses, MCP servers, prompt-driven code generation, Claude Code (daily development)
Infra & Tools	Docker, AWS, Git, CI/CD
Practices	Clean architecture, design patterns, state machines, SDK design, computational geometry, performance profiling, testing, code review, mentoring

EXPERIENCE

Control (cntrl.site) — Lead Developer 2022 — Present

Venture-backed freehand website builder, incubated inside Momdesign Studio

- One of the lead developers taking the product from prototype to a live, paying platform.
- Designed and built the **geometry engine**: shape manipulation, coordinate-space transformations, snapping and intersection detection.
- Created a **custom SDK** so published sites render and run editor output independently of the editor itself.
- Built the product's **AI features**: a chat that turns prompts into working React embed components (forms, animations, sliders) and prompt-driven **WebGL** image effects, streaming responses with the model's thinking visible; users pick Claude Sonnet or Opus.
- Made the chat history fully editable — undo, redo, rewrite an earlier prompt and regenerate from it — tracking component state per message.
- Built an **MCP server** so AI agents can import data and create collections and posts through tool calls instead of the UI.
- Owned MongoDB data modelling, payment and accounting flows, testing and performance.
- Structured the codebase on clean-architecture principles and design patterns.

Momdesign Studio — Full-Stack Developer & Project Lead 2021 — Present

- Lead front-end and back-end development on large, structurally complex client projects, owning architecture from data model through to UI; trained new hires and set coding standards across the team.
- Led development of **GenesisX** (2025), an internal design tool for swipeable, scene-by-scene mobile sites for global CPG brands: scene editor, React Flow scenes map, XState gesture runtime, AWS publishing, Next.js export.
- Delivered the **IBM X-Force Threat Intelligence Index**, the **Data & Trust Alliance** platform and work for the **Museum of Arts and Design**.

Suprematism Studio — Frontend Engineer 2019 — 2021

- Built animation-heavy websites for studios and IT companies, translating detailed design work into responsive, pixel-accurate, cross-browser interfaces.

EDUCATION

Igor Sikorsky Kyiv Polytechnic Institute — Specialist Diploma & BSc, Avionics 2007 — 2013

LANGUAGES

English — B2 · Ukrainian — Native · Chinese — A2 · Russian — Fluent · Open to on-site, hybrid and remote roles