

Yerassyl Bazarbayev

Full-Stack Software Engineer · Astana, Kazakhstan

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SUMMARY

Frontend-leaning full-stack engineer working in TypeScript end to end: React/Next.js on the client, Node.js and MongoDB on the server. Took an AI math tutor to 9,000+ students; currently building my own component library.

SELECTED PROJECTS

math12.studio AI math tutor [source](#) 2024

Next.js · TypeScript · Express.js · MongoDB · Gemini API · OpenAI API · KaTeX

- Built and launched an AI tutor for Kazakhstan's school math curriculum; grew it to 9,000+ users and 700 registrations.
- Built the chat tutor UI, rendering LLM math with KaTeX, plus a photo-to-solution solver and curriculum-aligned tests with progress tracking.
- Split it into a Next.js client and an Express + MongoDB API with JWT cookie sessions.

OnePorted Learning platform for a school programming club [oneported.vercel.app](#) [source](#) 2024

Next.js · TypeScript · Monaco Editor · Babel · MongoDB

- Built a Monaco-based code playground that transpiles and previews React/JSX in the browser via Babel; Python and PHP run in remote sandboxes.
- Built lessons with runnable examples, a trace-table generator and event sign-ups for a 20-member school programming club with two branches across the country.

satley SAT-prep platform · 500+ users [satley.co](#) 2025

Next.js · Express.js · WebSockets · MongoDB · JWT

- Built a tutor–student platform for SAT prep with real-time messaging over WebSockets.

EXPERIENCE

Programming Mentor Nazarbayev Intellectual Schools · Semey, Kazakhstan Sep 2024 – May 2025

- Coached 17 students in algorithms and data structures for olympiads; wrote problem sets and led training sessions.
- Ran a 20-student web development track, from UI/UX fundamentals to building and shipping full-stack apps.

NATIONAL HACKATHONS & AWARDS

MedTech Hackathon · 1st of 130 teams Jun 2026

Decentrathon 4.0 · 2nd of 2500+ participants Sep 2025

HackCor Hackathon · 2nd of 62 teams Jun 2025

Law and Code Hackathon · 1st of 60 teams Mar 2025

Freedom Hackathon · 2nd of 79 teams Nov 2024

Hack the BookShelf · 1st of 67 teams Sep 2024

nFactorial Incubator Finalist · Top 3% of 3000 Aug 2024

SKILLS

Languages	TypeScript, JavaScript, Python, HTML, CSS
Frontend	React, Next.js, Tailwind CSS, Monaco Editor, Babel, KaTeX
Backend	Node.js, Express.js, REST, WebSockets, JWT, Git
Data & AI	MongoDB, OpenAI API, Gemini API

EDUCATION

Nazarbayev Intellectual School of Science and Mathematics (high school, physics & math track) · Semey 2020–2026