

Hey, I'm Dmitry Krasnov 🙋. I am a polyglot programmer, self-starter and a coding enthusiast. I use **TypeScript** and **Go** professionally to build solutions that deliver seamless user experiences.

Right To Work in New Zealand

Family / Partner Visa with No Restrictions

Education

Siberian Federal University	2017 - 2021
Bachelor's, Applied Informatics	
Siberian Federal University	2021 - 2023
Master's, Information Systems & Technology	

Work

SibFU Artificial Intelligence Laboratory	Full-Time, 2020 - Present
<i>as Research Assistant</i>	<i>Krasnoyarsk, Russia</i>

Job Description

Responsible for building and maintaining multiple JAMStack resources. Contributed to the development of interactive front-end interfaces, as well as back-end systems, utilizing various tools and platforms to ensure optimal performance and seamless user experiences.

Frontend Development

- Created dynamic and engaging web applications and websites using modern frontend technologies.
- Developed interactive web interfaces using libraries and frameworks such as React, Vite, Next.js, Astro, Svelte.
- Utilized JAMStack architecture principles to enhance performance and scalability.
- Integrated various Headless CMS platforms, including Sanity, PayloadCMS, Storyblok, Strapi, Outstatic and more.

- Leveraged the capabilities of these CMS systems to efficiently manage content and ensure a smooth content editing process.
- Developed webhooks to enable real-time updates by triggering various rendering patterns, such as incremental static regeneration and static site generation.

Backend Development

- Designed and implemented RESTful and GraphQL APIs using Golang, ensuring efficient communication between frontend and backend parts.
- Leveraged GraphQL to provide flexible data querying capabilities for client applications.
- Incorporated different open-source solutions, including Keycloak and Supertokens IAM, to enhance authentication and identity management capabilities.
- Utilized file storage solutions MinIO and SeaweedFS to efficiently manage and store files within the applications.

Deployment Strategies

- Managed both server-based and serverless deployment strategies to ensure optimal performance and scalability.
- Utilized Docker and Nginx for server-based deployments, optimizing application containerization and networking.
- Employed serverless platforms like Vercel and Railway for efficient deployment.

SibFU Laboratory for Climate Change and Ecological Development

as Research Engineer

Part-Time, 2021 - 2022

Krasnoyarsk, Russia

Job Description

Headed a team in the development of a serverless solution for storing and analyzing climate data on behalf of the Government of the Krasnoyarsk Territory.

Responsibilities

- Led a team of three members to create a full-stack product written in TypeScript using Next.js, tRPC, Prisma ORM and PlanetScale.
- Orchestrated smooth communication between frontend and backend components, optimizing data flow.
- Implemented NextAuth.js for user authentication with custom logic.

Job Description

Contributing remotely as an external expert across a range of projects. My role involves providing technical guidance, conducting comprehensive code reviews, refactoring applications for improved performance, and offering hands-on support.

Responsibilities

- **Technical Advisory:** Acted as a subject matter expert, providing technical insights and advice.
- **Code Reviews:** Conducted thorough code reviews, ensuring adherence to best practices, identifying potential vulnerabilities, and enhancing overall code quality.
- **Application Refactoring:** Improved application performance and maintainability through strategic refactoring efforts, optimizing code and structure.
- **TypeScript Migration:** Led the migration of code bases from JavaScript to TypeScript.
- **Core Web Vitals Optimization:** Implemented optimizations to meet and exceed Core Web Vitals score, enhancing website loading speed and overall user engagement.

Expertise

- **Self-Discipline and Developer Productivity:** Possess strong self-discipline and productivity skills crucial for efficient development workflows.
- **Rapid Product Launch:** Experienced in successfully launching products within tight timeframes.
- **TypeScript Expertise:**
 - Advanced type transformations, unions, and indexing
 - Template literals and type helpers
 - Conditional, mapped, and branded types
 - Inference and generics
 - Function overloads
 - Type predicates
 - Assertion functions
 - Identity functions

- **Go Expertise:**

- Effective use of interfaces and composition for clean and modular code.
- Building RESTful and GraphQL APIs using the standard library or popular frameworks.
- Working with Go's powerful standard library for tasks like networking, file handling, and more.
- Familiarity with Go's memory management and garbage collection.
- Familiarity with concurrency patterns using goroutines and channels.

Tools

- **TypeScript**

- **Front-End:** React, Svelte, Vite, Next.js, Astro, SolidJS
- **Back-End:** Next.js, tRPC
- **Styling:** CSS, CSS-in-JS, CSS Modules, SCSS, Tailwind, styled-components, Headless UI, Radix UI, Framer Motion
- **State Management:** Zustand, Jotai, Nanostores, TanStack Query
- **ORMs:** Prisma, Drizzle
- **Validation:** Zod, Valibot
- **Other:** Axios, Storybook, Vitest, React-Hook-Form, NextAuth.js, ESLint, Prettier, Turborepo and more

- **Go**

- **Primarily using the Go standard library**
- **Router:** go-chi/chi
- **Frameworks:** entgo.io/ent
- **GraphQL:** 99designs/gqlgen, graph-gophers/graphql-go
- **Configuration:** spf13/viper
- **Utilities:** cosmtrek/air

- **Other**

- **Database:** PostgreSQL, MySQL, MongoDB
- **Containerization:** Docker, Docker Compose
- **Web Server:** Nginx
- **CI/CD:** GitHub Actions
- **And more...**