

Alan Urmancheev

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Software engineer. Open source contributor. Graduate of the world-class 42.fr coding school.

Technical skills

Primary programming languages: Rust, Nix, C, Go.

Primary technologies: Linux, Docker, GNU Make, Bash, Git.

Secondary skills: SQL, C++, JavaScript, Python, Haskell, NixOS, computer networking.

Personal projects

[json2dir](#): JSON-to-directory converter, 100+ stars on GitHub (Rust, Nix) 2025
json2dir is used as a fast alternative to home-manager for managing dotfiles.

[alush](#): Unix shell with closures, hashmaps, and tracing GC (Rust) 2025
alush is a shell that supports structured data natively, which is lacking in shells like Bash.

[ping](#): implementation of ping networking utility (C, Nix) 2024
ping allows sending ICMP packets to internet hosts to discover their availability.

[tsoping](#): YouTube channel update Telegram notifier, 10+ stars on GitHub (Bash, Nix) 2024
tsoping is a Telegram bot that posts a message to a group every time a channel posts on YouTube.

[JSON](#): plugin for Acme text editor for viewing JSON (Go) 2023
JSON represents JSON structures as interactive buffers, making it easy to explore JSON ([video](#)).

[irc](#): IRC server (C++) 2023
irc implements the client-server part of the IRC specification, making it useful as an IRC server.

Open source contributions

ki-editor (1, 2)	CueKeeper (1)	Nix (1)	Go (1)
Dart (1, 2)	Nushell (1)	Pallene (1)	json-c (1)
Upspin (1)	vis (1)	nixpkgs (1)	rust (1)

Work experience

Software engineer at [Inango](#) January 2023 — April 2023

- Wrote a C memory profiler utilizing Linux's /proc/\$pid/maps. It has been used to **analyse memory usage patterns** in a service.
- **Integrated TLS** between a company service and a MQTT broker using C, Go, and OpenSSL.

Education

[42 programming school](#) ([certificate](#)) July 2021 — May 2025

Completed an intensive, project-based curriculum in C, C++, algorithms, and systems programming, equivalent to 2 years of professional coding experience.

Public speaking

Have a **technology focused blog** ([web](#), [Telegram](#)). Have given talks about **Git**, **C** (1, 2), **Nix** (1), **OOP**, and other topics.