

Ilan Joselevich

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PERSONAL STATEMENT

High school student with a great passion for finding and acquiring the truly powerful skills in the tech industry. Always interested in new and innovative technology with potential to change and improve the way we use computers.

SKILLS

- **Operating Systems:** Linux (NixOS, RHEL, Fedora)
- **Programming Languages:** Bash, Nix
- **Version Control:** Git (GitHub, GitLab, Gitea)
- **Build tools and package managers:** Nix, RPM, PKGBUILD
- **CI/CD:** Hercules-CI, Hydra, GitHub Actions
- **Virtualization and Containerization:** QEMU/KVM, Libvirt, VirtualBox, Docker, Podman, NixOS Containers
- **Networking:** WireGuard, Tailscale

PERSONAL PROJECTS

nix-config - Personal Infra:

This is the infrastructure for my highly configured and optimized personal systems. These systems can be managed in an IaC manner, built and then deployed statelessly over the internet. This repository also provides the configurations for one of the systems I use for hosting various software like: Nextcloud, Jellyfin, Gitea and more. In order to "glue" the infra together nicely, I connect all the systems with the Tailscale VPN.

robotnix-personal:

A Repository which holds my configuration files for Robotnix, a reproducible build system for Android (AOSP) images, which I use to build my bit-for-bit reproducible custom Android AOSP-based operating system for my personal mobile phones.

website - ilanjoselevich.com:

My website (<https://ilanjoselevich.com>) where I blog about various topics I am interested in. I set up a multi-agent CI/CD pipeline via Hercules-CI for automatically deploying the built website to Netlify.

NOTABLE OSS CONTRIBUTIONS

NixOS - nixpkgs:

I opened over 150 GitHub pull requests to the biggest and most up-to-date cross-platform UNIX package manager repository. These pull requests added new packages which I maintain, occasional updates to various programs and NixOS modules for declaratively managing and constructing a Linux operating system in an Infrastructure-as-Code way.

home-manager:

Implemented multiple NixOS-like Home Manager modules, which can be used to declaratively enable Input Method Frameworks supporting many Asian languages across most Linux distributions. Said modules allow easy management of the Linux and even macOS user environment.

Contamination:

A 2D video-game written in Java which I've added a Nix Flake to so the game can be reproducibly be built with gradle2nix, a gradle (Java programs build tool) translator

to the Nix language and deploy the build artifacts straight to Cachix, a Nix binary caching system, via GitHub's CI/CD functionality called GitHub Actions. Due to the work I did on this project, one is able to execute the game by simply running one short command, instead of having to download a copy of the game's source code and build it manually.

**SPOKEN
LANGUAGES**

- **Hebrew:** Native
- **English:** Full professional proficiency
- **Spanish:** Great understanding and reading skills