

AMNEESH SINGH

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Hello, I am Amneesh Singh, I also go by [natto1784](#) online. I live in Delhi, India; and do random stuff. I am more of a “system-administrator” type of guy, but when it comes to programming, I want to do it all low-level; unless it relates to my hobby.

WORK EXPERIENCE

Cypherock - Software Engineer Intern *June 2023 - September 2023*

- Worked a bit on the firmware apps
- Worked occasionally on the Electron side of things
- **Implemented** the sockets based PoC for the MPC based threshold signing scheme

TurboML - Software Engineer Intern *November 2023*

Worked a bit on the deployment side of things involving docker and nomad

STUDENT PROGRAMS, SCHOLARSHIPS, EXAMINATIONS

- **Google Summer of Code 2022** | *C - GLib - Git*

I participated as a contributor in [Google Summer of Code 2022](#) at [libvirt](#) and got paid a stipend for it by Google. The project involved adding the new introspectable statistics provided by QEMU and adding them under the libvirt statistics API.

- NOC: Foundations of Cryptography, IIIT Bangalore, NPTEL *May 2022*
- NOC: Computer Architecture, IIT Delhi, NPTEL - *May 2022*

EDUCATION

B.Tech, Information Technology

Maharaja Agrasen Institute of Technology *(2021 - 2025), 8.6GPA*

PROJECTS

Home Lab | *linux - NixOS - WireGuard - OCI - Hashicorp*

I have an automated home VPN running multiple utility containers with most services reverse proxied via my VPS. Huge fan of [Nix](#) package management.

dotfiles | *linux - NixOS - Configuration*

<https://github.com/natto1784/dotfiles>

My personal dotfiles that have been NixOS exclusive since early 2021. These also includes configurations for some parts of my server infrastructure.

matar | *ARM - Computer Architecture - C++ - Meson*

<https://github.com/natto1784/matar>

A WIP Nintendo Game Boy Advance emulator.

tricc | *Rust - Compiler Design*

<https://github.com/natto1784/tricc>

A WIP (probably suspended) toy compiler for my toy language.

SKILLS

Programming Languages

- **Proficient:** C/C++, Rust, Python, Javascript
- **Experienced:** Lisp, Haskell, PHP, Java, Lua, Go, x86-Assembly, ARM-Assembly

Tools

- **Proficient:** GNU/Linux, POSIX Shells, TeX, Git, Nix/NixOS, GNU Make, ffmpeg, OpenSSH, vi/vim, GNU Emacs, Docker, Nomad, Vault, nginx, ConcourseCI, NodeJS, ReactJS
- **Experienced:** Pandoc, GitHub Actions, ZFS, OCI, Terraform, Consul, Portage, yarn/npm, Rocket

Soft Skills

- **Languages:** Hindi, Punjabi, English, Japanese (can read a little, cannot converse)
- **Hobbies:** Home server/lab, Writing, Philosophy, Music theory, Geopolitics