

Prashant Rahul

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Work Experience

Cypherock, Gurugram (*Remote*)

Aug 2024 - present

Software Engineer Intern

- Worked on firmware for the X1 and X2 hardware wallets

Open source contributions

The Julia Programming Language

[\[link\]](#)

- Improved performance in `show()` for `UnitRange`, `append!` for `AbstractVector`
- Quality of life improvement when displaying empty ranges

Projects

evelin (*compiler, qbe, rust*)

[\[link\]](#)

Evelin is a general purpose, statically typed, compiled language using the QBE backend with C FFI support.

zspie (*c, compiler, interpreter*)

[\[link\]](#)

Zspie is a fast, easy, dynamic programming language, implemented in C with a virtual machine and opcode based execution.

cipi8 (*chip8, chip8-emulator, cpp*)

[\[link\]](#)

C++ Chip-8 emulator with opcode, graphics, input, and timer support.

x1_wallet_firmware (*c, cryptocurrency, hardware-wallet*)

[\[link\]](#)

Cypherock X1 Wallet firmware

splax (*interpreter, lexer, parser*)

[\[link\]](#)

A memory-safe, easy, dynamic programming language in Rust with a tree-walk interpreter executing directly on the AST.

dotfiles (*dotfiles, nix, nixos-configuration*)

[\[link\]](#)

Nix configuration using flakes and home manager for all my machines.

Skills

Programming Languages:

- **Proficient:** Rust, C/C++, Go, Typescript
- **Experienced:** LLVM IR, QBE IR, Julia, Python, C#

Technologies & Tools:

- GNU/Linux, Nix/NixOS, Git, CMake, Make, Meson, Vi/Vim/Neovim, POSIX Shells, NodeJS, SolidJS

Education

Bachelor's Degree in Computer Science

Graduating in 2027

CV Raman Global University

Senior Secondary Education

2022

DAV Public School