Prashant Rahul

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Work experience

Cypherock, Gurugram *(Remote)* *Aug 2025 – Jan 2026*
Software Engineer Intern

- Implemented the Canton Network within STM32 embedded firmware for the X1 crypto hardware wallet, supporting 30K+ users
- Ocassionally worked on the Electron side of things

Open source contributions

RTEMS - RTOS for Multiprocessor Systems [link]

- Enabled IMFS testing on BSPs with tight memory constraints, like the sparc/erc32 bsp
- Rewrote binary file to C source utility in python

The Julia Programming Language [link]

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

Education

Bachelor's Degree in Computer Science *2027*
CV Raman Global University

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.

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

Technologies & Tools:

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