

Dhruv Chawla

COMPILER ENGINEER

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Vellore, Tamil Nadu

Profile

A capable programmer learning compiler design. Experienced with interpreters, and familiar with systems and assembly programming.

Languages

English Fluent

Hindi Intermediate

Projects

nyx Interpreter

September 2020

nyx is a simple, deterministic programming language implemented in C++. It contains features such as classes, lists, tuples, a static type system, and copy, reference and move semantics.

<https://github.com/dc03/nyx>

BitArray Library

March 2021

BitArray is a tiny header-only C++ library for implementing a generic bit array that works with multiple integer types. It was created to practice working with the Doxygen and Sphinx documentation generation systems.

<https://github.com/dc03/BitArray>

rispy Interpreter

February 2022

rispy is a small lisp interpreter for a dialect of lisp inspired by lispy. It was created to practice the Rust programming language.

<https://github.com/dc03/rispy>

mini-utf8 Library

February 2022

mini-utf8 is a tiny C library for encoding and decoding UTF-8 strings. It was created to learn about how UTF-8 encoding works.

<https://github.com/dc03/mini-utf8>

Skills



Experience

Google Summer of Code **Data Buffers / Serialization**

June 13, 2022 - September 12, 2022

In this project I worked on rewriting most of the frontend of the ENIGMA Development Language compiler. I also rewrote most of the Binary Buffer system which deals with storing and reading data from byte streams.

<https://summerofcode.withgoogle.com/programs/2022/projects/BrXiUNA2>

VIT Linux Users' Group - Core Member

December 2020 - January 2022

- Initiated discussions with the rest of the club
- Conducted the event "GIT IT RIGHT", an introduction to the git version control system
- Worked on Arcadia Linux, an in-house Linux distribution

VIT Linux Users' Group - Board Member, Vice Chairman

January 2022 - Present

- Helped set up and coordinate the recruitment forum for the freshers' recruitment process
- Conducted interviews of new recruits
- Conducted the "Quality Control in Open Source Projects" event for VIT Vellore's Quality Week