Dhruv Chawla

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Summary

A capable programmer learning compiler design. Experienced with interpreters, and familiar with systems and assembly programming. Skilled with the C++ programming language.

Experience



🔪 Core Committee Member

VIT Linux User Group

Jan 2023 - Present (10 months)



Core Committee Member

ACM-VIT CHAPTER

Mar 2022 - Present (1 year 8 months)



Google Summer Of Code Contributor (The LLVM Compiler Infrastructure)

Google Summer of Code

May 2023 - Sep 2023 (5 months)

- Implemented the InferAlignment pass into the LLVM optimization pipeline
- Added a new diagnostic to clang
- Implemented transforms within InstCombine
- Found a major performance improvement in SetVector
- Found miscellaneous performance improvements in DAGCombiner and InstCombine

https://summerofcode.withgoogle.com/programs/2023/projects/JdqGUwNq



📜 Vice Chair

VIT Linux User Group

Jan 2022 - Jan 2023 (1 year 1 month)

- 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



Google Summer Of Code Contributor (The ENIGMA Team)

Google Summer of Code

Jun 2022 - Sep 2022 (4 months)

- Worked on rewriting most of the frontend of the ENIGMA Development Language compiler, a scripting language based on GML with some features from C++

- Rewrote most of the Binary Buffer system which deals with storing and reading data from byte streams
- Made a serialization and deserialization system which uses template metaprogramming for static polymorphism

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



🔪 Core Committee Member

VIT Linux User Group

Dec 2020 - Jan 2022 (1 year 2 months)

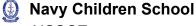
- Initiated discussions with the rest of the club
- Conducted the event "GIT IT RIGHT" , an introduction to the git version control system
- Worked on Arcadia Linux, an in-house Linux distribution

Education



Vellore Institute of Technology

Bachelor's degree, Information Technology 2020 - 2024



AISSCE 2018 - 2020

Mavy Children School

Intermediate 2014 - 2018

Navy Children School

Middle School 2008 - 2014

Licenses & Certifications



Design and Analysis of Algorithms - NPTEL

NPTEL21CS68S4332059403122958



(NPTEL Introduction to Haskell Programming - NPTEL

NPTEL22CS69S2318078809012045

Skills

Git • LLVM • Python (Programming Language) • C++ • C (Programming Language) • IntelliJ IDEA • Operating Systems • Linux • Rust (Programming Language) • Microsoft Visual Studio Code