

Ishan Grover

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EXPERIENCE

- **Rust Backend Developer Intern** · Aftershoot September 2024 - Current
 - Built **image retouching features** in Rust including acne removal, object removal & etc tools from scratch.
 - Implemented and integrated **image processing algorithms** in Rust, focusing on performance and memory safety.
 - Worked closely with team to **integrate Retouching components** into the main Aftershoot software.
- **Google Summer of Code** · CCExtractor | PROJECT May 2024 - August 2024
 - **Migrated and rewrote** parts of the existing C codebase to Rust for better security.
 - Created a **Docker image** to simplify the usage of CCExtractor, eliminating environmental setup hassles.
 - Fixed and tested the existing C code by **writing unit tests** and running regression tests.
 - Worked with Rust, C, bindgen, Docker, testing
- **Rust Developer Intern** · MakerStudio April 2024 - August 2024
 - Developed **MonkMode**, a focus app in Rust, interacting with Dbus to manage notifications and create a distraction-free environment.
 - Contributed to **PickGap**, a product that analyzes user feedback and topics to identify market gaps.
 - Worked on **FolderSet**, a inventory management WebApp.
 - Worked with Rust, Linux, dbus, diesel, tokio, actix, postgres

OPEN SOURCE CONTRIBUTION

- **CCExtractor**
 - Add timing module in lib-ccxr #1640
 - Add net module in lib-ccxr #1634
 - Add encoding module in lib-ccxr #1628
 - Add bits and levenshtein module in lib-ccxr #1627
 - Add time units module in lib-ccxr #1623
 - Add log module in lib-ccxr #1622
 - Initialize data structure for Rust CEA-708 decoder #1618
 - Create Unit test case for all rust modules #1615
 - Create a Docker image for CCExtractor #1611
 - Create AppImage for building CCExtractor in Linux #1592
- **i3status-rust**
 - Refactor code to unify package manager blocks (apt, pacman, aur, dnf) into a single "packages" block. #1988
 - Add xkbswitch support for keyboard layout. #1985

PROJECTS

- **Pass-rs** | Password Manager (Rust)
 - A secure and user-friendly **CLI password manager**.
 - Uses secure and safe cryptography algorithms like **XChaCha20-Poly1305**.
 - Successfully **tested with 1000 password entries** for demonstrating speed and performance.
- **LLM-Chat** | Chat API (Rust, Axum)
 - Developed an **fast API** for generating response from local LLM.
 - Uses **OpenLLaMA 3B model** for generating fast response.

EDUCATION

- **ABES Engineering College** · B.Tech, Computer Science 2022 - 2026 · 8.5 CGPA:
- **Kendriya Vidyalaya, UP** · Intermediate (PCM) 2020 - 2022 · Percentage: 77%
- **Kendriya Vidyalaya, UP** · High School 2019 - 2020 · Percentage: 86%

TECHNICAL SKILLS

Languages: Rust · C · C++ · Python

Familiar with: Bash script · Haskell · HTML · CSS · JavaScript

Developer Tools: Linux · Git · Docker · Postgres · NeoVim · Arch Linux · Tmux

Rust Crates Familiarity: tokio · bindgen · actix · axum · sqlx · diesel · nom · serde · egui · dbus

Skills: OOPs · Operating System · Computer Architecture · Data Structures & Algorithm

Interest: Low level programming · System programming · Embedded systems

POSITIONS OF RESPONSIBILITY

- **Elixir Community** · LEAD Aug, 2023 - Present
 - Elixir Community is a **coding community** which is actively organizing coding events and sessions within college.
 - Organized various coding events having more than **500+ students** as audience.
 - Engaged in organizing coding challenges, workshops, and sessions.