

# Ishan Grover

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## EXPERIENCE

- **Rust Developer** · Aftershoot September 2024 – Present
  - Engineered and released **image retouching features** (Acne & Blemish Removal, Face Brightening, Object Removal, etc.) from inception to production, integrated directly into the AS app with **35,000+ active users**.
  - Developed core functionality (**40,000+ lines of code**) in Rust using advanced **image processing**, **EXIF manipulation**, and libraries such as **OpenCV**, **ndarray**.
  - Collaborated with cross-functional teams to ensure seamless integration and optimized performance of retouching workflows.
  - Building a **command line interface (CLI)** to isolate retouching modules for streamlined QA and AI-driven testing.
- **Google Summer of Code** · CCExtractor | Project May 2024 – August 2024
  - **Migrated and rewrote 10,000+ lines of legacy C code** into Rust, eliminating unsafe patterns and improving memory safety.
  - Created a **Docker image** simplifying usage of CCExtractor and eliminating environment setup hassles.
  - Wrote unit tests and ran regression tests to stabilize existing C code.
  - Worked extensively with Rust, C, bindgen, Docker, and testing frameworks.
- **Rust Developer Intern** · MakerStudio April 2024 – August 2024
  - Developed **MonkMode**, a focus app in Rust, interacting with DBus to manage notifications for a distraction-free environment.
  - Contributed to **PickGap**, an analytics product that identifies market gaps through user feedback.
  - Worked on **FolderSet**, an inventory management WebApp utilizing tokio, diesel, axum.

## 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:** Golang · Haskell · BashScript · HTML · CSS · JavaScript

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

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

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

## POSITION OF RESPONSIBILITY

- **Lead of Elixir Tech Community of ABESEC** Aug, 2023 - Sep, 2025