

# Ishan Grover

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## EXPERIENCE

- **Google Summer of Code** · CCExtractor | [PROJECT](#) May 2024 - Current
  - **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 - Current
  - 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.
  - Currently working on **FolderSet**, a inventory management WebApp.
  - Worked with Rust, Linux, dbus, diesel, tokio, actix, postgres

## OPEN SOURCE CONTRIBUTION

- **CCExtractor**
  - 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](#)
  - Add SCC support to CEA-708 decoder. [#1595](#)
  - Create a Docker image for easy use of CCExtractor without any hustle. [#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

- **CodeChef ABESEC** · Developer Coordinator Aug, 2023 - Present
  - CodeChef ABESEC is a **coding club** which is actively organising coding events and sessions within college.
  - Organized various coding events having more than **400+ students** as audience.
  - Engaged in organizing coding challenges, workshops, and sessions.