

# **Book**

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# **1 Overview**

## **2 Documentation hub.**

This site collects Technical Docs, Architecture Notes, and Design Decisions for all my projects.

## 3 How to Use This Site

- Use the **sidebar** or the project cards below to jump into a specific project.
- Within each project:
  - Start with the *Overview* chapter
  - Then read Architecture / Workflow chapters
  - Dive into Code Snippets, Testing, and Future Work as needed

This site is primarily written for **future me** — but if you're reading it later as a user or contributor, I hope it gives you clear insight into how everything fits together

## 4 Roadmap & Future Projects

This hub is designed to grow over time as more tools , research, libraries experiments appear.

Planned additions include:

- Experimental tools automation, research, quantum computing etc
- Libraries or platform to enhance productivity
- More utilities on workflows automation

When a new project is created, it will get:

- Its own folder (e.g. `new-project/`)
- Its own mini “book” of chapters
- A card on this page linking into its docs



## 5 About Me

I'm **Rakesh V**, a developer and tinkerer who enjoys building tools that make it easier to think, automate, and explore ideas.

I maintain the projects in this “book”

If you'd like to know more about my background, how these tools came about, and how to support my work, see:

[Read more in “Author” section](#)

# 6 Projects Overview

## 6.0.1 **ratcrate-core**

The **engine** behind the Ratatui ecosystem index.

- Scans the crates.io sparse index
- Finds all crates depending on **ratatui**
- Enriches them with crates.io metadata
- Applies smart caching
- Produces **ratcrate.json** for other tools to consume
- To be open sourced soon

[Read the ratcrate-core docs »](#)

## 6.0.2 **ratcrate-cli**

A command-line interface for exploring the Ratatui ecosystem.

- Reads **ratcrate.json** produced by **ratcrate-core**
- Search and filter Ratatui crates from the terminal
- Show stats, links, and crate details

[Read the ratcrate-cli docs »](#)

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### **6.0.3 ratcrate-tui**

A **Ratatui-based TUI** for browsing Ratatui crates.  
Very meta. Very fun.

- Terminal UI built with Ratatui
- Interactive search and filters
- Crate detail views with stats and links
- Powered by `ratcrate-core` data

[Read the ratcrate-tui docs »](#)

### **6.0.4 doc2quarto**

A helper tool for turning rough notes, markdown, or code comments into **structured Quarto documentation**.

- Convert notes into `.qmd` skeletons
- Ideal for standardizing docs across all projects

[Read the doc2quarto docs »](#)

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### **6.0.5 QBanner (Coming Soon)**

A light-weight **rust based** library for CLI Banners

- Works on all rust cli projects and easy to use
- Supports Ratatui basic and advanced layouts
- Works on **shell scripts** too!

[Read the Qbanner Libraryi docs »](#)

## **6.0.6 QSwitch (Planned)**

Coming Soon »

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## **6.0.7 Challenges (Coming Soon)**

Documenting common challenges during these projects

Coming Soon

## **6.0.8 Books I read (Coming Soon)**

Coming Soon

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## **6.0.9 neovim to emacs migration**

Documenting my journey from neovim to emacs

[Read my journey »](#)

## **6.0.10**

Coming Soon

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Engineer who builds things.  
See what could be, not just what is.  
Build. Learn. Automate

# 8 About the Author

Hi, I'm **Rakesh Venkat** — a developer, researcher, and lifelong tinkerer who likes building tools that:

- Automate away repetitive work
- Make it easier to explore ideas
- Give people nicer ways to learn from and navigate code

Most of the projects in this book revolves around:

- **Rust** and terminal tools
- **Ratatui** TUIs (very meta)
- **Documentation** and knowledge organization
- Research & experiments that later become libraries or tools

I think of this book as a logbook of the systems I'm building and how they fit together.

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## 8.1 What I'm Trying to Do With These Projects

The broader goals behind these tools:

- Build **high-leverage tools** that save time for other developers.
  - Collect and organize knowledge (like the Ratatui ecosystem) so people don't have to rediscover the same things repeatedly.
  - Treat documentation as a first-class artifact, not an afterthought.
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