

# SUBRAMANYA J

Bengaluru, Karnataka, India

[subramanyajaradhy@gmail.com](mailto:subramanyajaradhy@gmail.com) — [subramanyaj.github.io/portfolio](https://subramanyaj.github.io/portfolio)

[linkedin.com/in/subramanya-j](https://linkedin.com/in/subramanya-j) — [github.com/SubramanyaJ](https://github.com/SubramanyaJ)

## EDUCATION

---

- **B. M. S. College of Engineering** Sept. 2023 – Sept. 2027  
*B.E. Computer Science and Engineering* GPA: 9.72/10
- **V. V. S. BM Sri Educational Institutions** 2021 – 2023  
*Pre-University* Percentage : 96%

## CONTRIBUTIONS

---

- **pwmt/zathura** — A document viewer.

- Identified a rendering bug caused by improper quickmark evaluation, where a file's zoom value was restored without considering the current adjust mode (best-fit, width), leading to truncated rendering and crashes. [Issue #761](#)
- Authored and submitted a fix ensuring correct application of adjust mode during quickmark evaluation to stabilize navigation. [PR #762](#)
- Implemented in C using the [Girara](#) library

## PROJECTS

---

- **scep** — A recursive scanner for hex color literals.

- Implemented a zero dependency C program that scans directory trees for #RGB, #RRGGBB, and #RRGGBBAA color codes using memory-mapped files.
- Wrote a custom directory walker that uses depth first search and respects simple gitignore rules for minimal memory usage to keep file system overhead low.
- Improved execution time by manually buffering the output, effectively amortizing calls to write().

- **feed** — An RSS feed aggregator.

- Created a basic real-time Really Simple Syndication (RSS) feed aggregator that collects feeds from sites specified in a JSON file.
- Uses a dedicated Vercel-hosted backend running Node.js to fetch and normalize feeds.
- Hosted online at <https://subramanyaj.github.io/feed> using GitHub Pages.
- Implemented using Node.js, HTML, Javascript and CSS.

- **errcheck.h** — A library for error handling in C.

- Provides macros to capture syscall return values and compare them against explicit expected conditions.
- Centralizes errno preparation, evaluation, optional reset, and perror() invocation in one place.
- Enables uniform, inline error checking around syscalls without duplicating comparison and errno handling logic.

## SKILLS

---

- Languages: C, x86 Assembly, JavaScript
- Developer Tools: Docker, git, gdb
- Build Systems: Meson with Ninja, CMake with Make

## COURSES STUDIED

---

- Operating Systems
- Database Management Systems
- Analysis and Design of Algorithms
- Advanced Algorithms
- Computer Organization and Architecture
- Object Oriented Java Programming
- Theoretical Foundations of Computation
- Computer Networks