

SUBRAMANYA J

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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