

Deeraj Chowdary

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Education

Manipal University – B.Tech in Computer Science & Engineering (Artificial Intelligence & Machine Learning) Present

Experience

Software Developer Intern, PAL-Tek July 2024 - September 2024

- Collaborated with core developers through meetings to advance the language's development.
- Established a content automation system to streamline workflows.
- Designed and developed a comprehensive website for the programming language, enhancing its online presence and user engagement

Projects

Calru - Math Interpreter github.com/rufeyean/calru

- a custom interpreted language supporting a range of arithmetic operations and features.
- Implemented essential interpreter components, including error checking, expression evaluation, and a command-line interface (CLI).
- Designed and executed 20+ comprehensive tests to thoroughly validate each phase of the interpreter, ensuring reliable and accurate execution.
- Actively expanding the language to support advanced mathematical operations and complex syntax parsing.

Medicontrol - Medicine Dispenser for the Elderly medicontrol.app

- Conducted requirement analysis and integrated Firebase for real-time data sync between the web app and Raspberry Pi 4.
- Implemented sliding doors powered by SG90 motors and controlled via limit switches for precise operation.
- Developed a web application enabling doctors to manage multiple dispensers through a centralized dashboard.
- Integrated a display for user interaction, providing real-time information on medication schedules, dosage, and dispensing status.

Cognisyn - A Code Generation Plugin in Terminal github.com/rufeyean/cognisyn

- Led the development of a code generation plugin for terminal environments, managing the project workflow to ensure efficient progress.
- Built the plugin using the OpenAI API, leveraging advanced technology to enhance functionality and performance.
- Developed a user-friendly website to improve accessibility and the overall user experience.

Volunteer Experience

Contributor, Rustfmt (Rust Language Code Formatter) [pull request](#)

- Fixed a bug in Rustfmt's error messaging by including precise file paths and details, added a new test, and refactored existing tests to resolve conflicts, improving error reporting accuracy.

Skills

Languages : Rust, C, GFORTH, Python, Javascript, Bash

Libraries & Tools : Git, Tensorflow, React.js, Vue.js, Express.js, Node.js, MongoDB

Technical Skills : Natural Language Processing, Shell Scripting, Compiler Construction, Cli Tools in Linux, Frontend Development.