Ravi Chandra Reddy N

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Education

BV Raju Institute of Technology (2014 - 2018)

- Bachelor of Technology in Electrical and Electronics Engineering with 76%.
- Organizer for Technical, Cultural events and Industrial visits.
- Supplementary education in Embedded and Assistive Technology at Assistive Technology Lab.

Skills

Java, Python, C/C++, PostgreSQL, MongoDB, HTML/CSS, Git, LaTeX, Software Development, Algorithms, Data Structures, Problem Solving, Relational and Non relational databases, Object Oriented Programming, Operating Systems, Computer Networks, Linux, and Shell Scripting.

Coding profile(s)

- `https://hackerrank.com/rcreddyn`
- `https://auth.geeksforgeeks.org/user/rcreddyn/`

Experience

National Remote Sensing Center (2018)

- Internship as a Project Student in Bhuvan Geoportal and Web GIS Services.
- Design and development of standard ways to trans-receive data to Bhuvan IoT Cloud.
- Sorted sensors and actuators into categories, to generalize a design solution.
- Delivered Python scripts and equivalent C++ code for interfacing devices with development boards.
- Formatted timed sensory data as JSON Objects to send to the IoT Cloud.

Projects

- Nomsh, a shell implemented in C.
  - Supports execution of builtin, and executable commands.
  - Supports output redirection.
  - Wrote a Makefile for creating an executable.
- Amrika, a compiler engineered for a cooked up language.
  - Crafted grammar for a language, and implemented parser, lexer, and emiter from scratch.
  - Implemented print and assignment statements and analogues to if conditional and while iteration.
  - Wrote a makefile to generate the compiler, and a bash script to run the compiled code.
- Lavangam, a trie-based command line spell checker.
  - Implemented a trie to store/search for words.
  - Implemented Levenshtein's algorithm to calculate distance between two words.
  - Utilized wordlist from NLTK corpus.
- Holyperil, a command line planetory monitering application.
  - A Python script to notify of potentially hazardous/ dangerous asteroids approaching Earth.
  - Used an offset of six days, to prepare just in case of an approaching hypothetical danger.
  - Utilized NASA's Asteroids - NeoWs API for the search.
- Freddie, a text-only browser.
  - A Python script to extract text from webpages, bypassing HTML tags, CSS, and all kinds of media.