



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

Programming/Scripting Languages: Java, Python, C/ C++, Bash

Databases: sqlite3, PostgreSQL, MongoDB

Web development: HTML/ CSS

Misc: Git, L^AT_EX, Unix/ Linux, Software development, Algorithms, Data structures, Relational database, Non relational database, Object-oriented design, Mathematics, Operating systems, Computer networks

Coding profile(s)

- <https://hackerrank.com/rcreddyn>

Experience



National Remote Sensing Center (2018)

- Successfully delivered quality code during the internship as a Project Student in Bhuvan Geoportal and Web GIS Services.
- Designed and developed standardized ways to communicate sensors and actuators with Bhuvan IoT Cloud.
- Identified and sorted around 100 sensors and actuators into categories, to generalize a design solution.
- Delivered Python scripts and equivalent C++ code to efficiently interface devices with development boards.
- Formatted timed sensory data as JSON Objects to send to the IoT Cloud.

Projects

Nomsh, a shell programmed in C.

- Effectively implemented support for execution of built-in, executable commands, and output redirection.
- Written a Makefile for creating an executable on the Linux platform.

Amrika, a compiler engineered for a cooked-up language.

- Crafted grammar for a language and implemented parser, lexer, and emitter from scratch.
- Written a makefile to generate the compiler, and a bash script to run the compiled code.

Lavangam, a trie-based command-line spell checker tool.

- Engineered a utility that scans for a keyword and suggests a list if the keyword is misspelt.
- Successfully implemented a trie to store/search for words.
- Utilized Levenshtein's algorithm to calculate the distance between two words, which significantly improved performance.
- Utilized wordlist from NLTK corpus.

Holyperil, a command-line planetary monitoring application.

- A Python script utilizing NASA's Asteroids - NeoWs API, to notify of potentially hazardous/ dangerous asteroids approaching Earth.
- Used an offset of six days, to prepare just in case of approaching hypothetical danger.