

Akhilesh Devrari

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Education

Indian Institute of Technology Mandi

B. TECH IN COMPUTER SCIENCE AND ENGINEERING

CGPA: 8.50/10

Himachal Pradesh, India

August 2016 – June 2020

Skills

Programming: Comfortable: C/C++ Familiar: Python, Javascript, Scala, Prolog, C#, PHP

Utilities: MySQL, Git, Linux shell utilities, HTML/CSS

Achievements

- 1st place in Topcoder hackathon. Built a utility to perform online eye tests for distant vision and color vision.
- 94 rank in ACM ICPC Amritapuri regionals. 118 rank in online qualifiers across India.
- All India Rank 1785 out of 1.2 million participants in JEE Advanced 2016.
- 1st place in Avishkar 2017 (Technical event of IIT Mandi) for remote home automation project.

Projects

Bird

INTERPRETER

C++

github.com/akhileshdevrari/Bird

- Created an interpreter for a simple programming language from scratch.
- Added support for arithmetic operators, conditional and loop statements.

CodeGym

PRACTICE PLATFORM FOR COMPETITIVE PROGRAMMERS

PHP, MySQL

github.com/akhileshdevrari/codegym

- Users could create custom programming contests, selecting topics and time limit and track their performance over time.
- Created as part of a course project and got an A grade.

Normie

NORMALIZATION TOOL

Javascript

github.com/akhileshdevrari/Normie

Created a normalization tool with the following features:

- Find minimal cover, closure, candidate keys and normal form of given schema.
- Added feature to find probable functional dependencies from uploaded TSV file and convert given schema to 3NF

Rhythm

GUITAR TUNER

Javascript

github.com/akhileshdevrari/Rhythm

- Created a web app to tune a guitar in standard tuning using WebAudio API.
- Used Auto-correlation techniques to produce results good enough for amateur use.

BombShell

BASH-LIKE SHELL

C++

github.com/akhileshdevrari/BombShell

- Created a bash-like shell able to execute processes for linux from scratch.
- Added features for piping, IO redirection and command auto-complete.

Miscellaneous

- Teaching Assistant in IC250 (Data Structures and Practicum) and IC252 (Data Science).
- Interested in algorithms and competitive programming.
- **Coursework (with 9/10 or higher) :** Data structures and algorithms, Algorithm design and analysis, Artificial intelligence, Applied database practicum, Linear algebra, Probability and statistics, Communicating distributed processes, Mathematical foundations of computer science, Paradigms of programming