Akhilesh**Devrari**

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Education

Indian Institute of Technology Mandi   *Mandi, HP*
B. Tech in Computer Science and Engineering   *August 2016 – June 2020*
CGPA: 8.48/10

Skills

Programming: Comfortable: C/C++, Javascript   Less experience: PHP, Python
Utilities: MySQL, Git, Linux shell utilities, HTML/CSS

Projects

Bird   *C++*
Interpreter   *github.com/akhileshdevrari/Bird*
- Created an interpreter for a simple programming language from scratch.
- Added support for arithmetic operators, conditional and loop statements.

CodeGym   *PHP, MySQL*
Practice platform for competitive programmers   *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   *Javascript*
Normalization tool   *github.com/akhileshdevrari/Normie*
Created a normalization tool with the following features:
- Find minimal cover, closure, candidate keys and normal form of given schema.
- Convert given schema to 3NF.
- Added feature to find probable functional dependencies from uploaded TSV file.

Rhythm   *Javascript*
Guitar tuner   *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.

Coursework

A	Data Structures and Algorithms	A	Mathematical Foundations of Computer Science
A	Applied Database Practicum	i	Communicating Distributed Processes
A	Linear Algebra	i	Artificial Intelligence
A	Probability, Statistics and Random Processes	i	Pattern Recognition

A : A grade
i : in progress

Miscellaneous

- Teaching Assistant in IC250 (Data Structures and Practicum).

- 1st place in Avishkar 2017 (Technical event of IIT Mandi) for remote home automation project.

- Competitive programmer, amateur guitar player, part of IIT Mandi badminton team.