

# Akhilesh Devrari

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## Education

### Indian Institute of Technology Mandi

B. TECH IN COMPUTER SCIENCE AND ENGINEERING

CGPA: 8.48/10

Mandi, HP

August 2016 – June 2020

## Skills

**Programming:** Comfortable: C/C++, Javascript      Less experience: PHP, Python

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

## Projects

### Bird

INTERPRETER

C++

[github.com/akhileshdevrari/Bird](https://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](https://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](https://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

GUITAR TUNER

Javascript

[github.com/akhileshdevrari/Rhythm](https://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.