JITHIN SUKUMAR
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ACADEMIC DETAILS

Examination	Year	Institute/School	CPI/%
B.Tech	2014-present	Electrical Department, IIT Kharagpur	9.11/10
CBSE (XII)	2014	K.V. No. 2, Delhi Cantt. - 10	97.2%
CBSE (X)	2012	K.V. No. 2, Delhi Cantt. - 10	10/10

SCHOLASTIC ACHIEVEMENTS

- Received appreciation letter from Human Resource Development Minister, Government of India for outstanding performance in CBSE class XII board examinations.
- Currently pursuing Minor degree in Computer Science and Engineering.
- Achieved Excellent (EX) grade in Programming and Data Structures, Algorithms.

INTERNSHIPS

- **National Digital Library**
  IIT Kharagpur (2nd May 2016 - 1st July 2016)
  - Developed NDL Data API Sandbox, completely built with DOMs created using JSON data, reducing the maintenance efforts. This service can be used by the developers to view the NDL Data API response.
  - Developed NDL's Controlled Vocabulary to bring all the development files under a single window and displaying the results as per the user's requirements.
  - Applied tree algorithm (preorder DFS) to simplify the DDC and MeSH XML files.
  - Developed scripts applying bottom-up approach for mapping video lecture's sub rip text files using stack data structure.

PROJECTS

- **Event Driven Particle Simulation** *(Course project, Algorithms Laboratory)*
  - Created event driven simulation of moving particles in a box using heaps, as an optimization over normal time driven simulation.

- **School Management System** *(Course project, Core JAVA)*
  - Developed School Management Software system in JAVA, using JDBC for connecting JAVA program with MySQL database.

COURSEWORK

- Algorithms (with lab)
- Programming and Data Structures (with lab)
- Machine Learning (ongoing)

TECHNICAL SKILLS

- **Languages** : C, C++, Java, **Script** : Javascript, PHP, **Database** : MySQL
- **Software Tools** : PSpice, NetBeans, XAMPP
- **Web Technologies** : HTML, CSS (Materialize, Bootstrap), jQuery, AJAX

POSITIONS OF RESPONSIBILITY

- **Sub-Head, Tech Team, Spring Fest 2016 (http://2016.springfest.in)** *(August 2015 - March 2016)*
  - Created events webpage for Wildfire (a rock band event) and Shake a Leg(a solo dance competition).
  - Worked with a team of 12 and developed a scoring interface using Google material design(Materialize) and crowd control system for Alakazam (Spring Fest freshers' event) and managed large MySQL databases of registered participants and their teams.
  - Responsible for developing Bingo (a game event) game interface and organizing the event along with the core team members.

EXTRA-CURRICULAR ACTIVITIES

- Member of NSO-Health and Fitness for 2 consecutive years.
- Interests : Programming, Solving Sudoku and Loop the loop