Keshav **Bansal**

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Education

YEAR	INSTITUTE	QUALIFICATION	PERFORMANCE
2017-Present	Indian Institute of Technology , Kanpur, India	B.Tech, Computer Science and Engineering	CPI-9.93/10.0
2015-2017	Ahlcon Public School, Delhi , India	CBSE Class XII	96.2%
2012-2015	Apeejay School , Noida , India	CBSE Class X	CGPA-10.0/10.0

Projects

SYMBOLIC ENCODING FOR LL(1) PARSING *IIT Kanpur*

UNDER PROF.SUBHAJIT ROY *October 2018-Present*

- Working on algorithm to build SMT encoding of parse condition for LL(1) grammars
- Studied topics like Theory of Automation and Compilers

SATISPY-SAT SOLVER *IIT Kanpur*

AS A PART OF COURSE CS202 *October 2018*

- Implemented a SAT solver to solve satisfiability problems encoded in propositional logic.
- Used Heuristics such as Unit Propagation and Pure Literal Elimination to decrease the running time.
- Created a program to encode a general SUDOKU puzzle and solved it using this SAT solver

BLISS-FOOD DONATION APP *IIT Kanpur*

WEB DEVELOPMENT INTERNSHIP UNDER PROF.SANDEEP SHUKLA *May 2018-July 2018*

- Developed a web and Android application allowing users to donate excess food to their nearby food charities so as to reduce food wastage.
- Used PHP for Backend and SQL Server Database to store records of users and NGOs
- Made use of Google distance matrix , Geolocation API for sorting the nearby NGOs in increasing order of distance from location entered by the user and SendGrid API for sending E-mails.
- Deployed the web app on Microsoft Azure Cloud.
- The app was awarded the second runner up title.

Skills

PROGRAMING LANGUAGES	C, C++, Python, Java(basic)
OPERATING SYSTEMS	Ubuntu, Windows
DATABASE	MySql, SQL Server
SOFTWARE SKILLS	git, MATLAB, GNU Octave, LaTeX
WEB DEVELOPMENT	Javascript(with JQuery), PHP, HTML, CSS

Honors & Awards

2017,2018	Received **A* grade in ten courses** (for exceptional performance)	*IIT Kanpur*
2017	Received **Academic Excellence Award** for session 2017-2018	*IIT Kanpur*
2017	**JEE ADVANCED-AIR 782** among 2 lakh students	
2017	**JEE MAINS-AIR 58** among 11 lakh students	
2017	Selected for **KVPY sholarship with AIR 440**	
2017	**Selected for Indian National Chemistry Olympiad**	
2017	Among **state-wise top 1% in National Standard Examination in Physics** (NSEP) in Delhi	

Relevant Courses

A*-Introduction to Programming   A*-Linear Algebra and ODE   A*-Real Analysis
A*-Introduction to Economics   A-Discrete Mathematics   A*-Mathematical Logic
A^* *is awarded for exceptional performance in a course*

Positions of Responsibility

Company Coordinator   *Aug 2018 - PRESENT*

STUDENT'S PLACEMENT OFFICE   *IIT Kanpur*

- Acted as a point of contact for various companies during the placement season 2018-2019
- Responsible for conducting pre-placement talks, interviews and presentations