

Kanika Midha



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Education

Degree/Examination	Institute	Year	Grades
B. Tech. in CSE(currently in 3rd year)	IIIT Hyderabad	2013-2017	8.28/10
12 th , CBSE	S.D. Public School,Chandigarh	2013	96.2%
10 th , CBSE	St. Anne's Convent School	2011	10/10

WORK EXPERIENCE

SUMMER INTERN AT VED COMPUTECH(May-July 2015)

MENTOR: Aditya Vikram Singh

DESCRIPTION:

Built the website and Mobile Site for the Real Estate project for the company using Javascript , PHP and HTML.

PROJECTS

ANALYTICS APP USING DJANGO(Team of 4)

MENTOR: Hemanth Satyanarayana(Imagine,Hyderabad)

DESCRIPTION: The app allows the user to try the apparel, share it on facebook or G+.Based on the actions the user performs information like device, operating system, browser, country,IP, date,time etc is tracked and we build piecharts and bar graphs to depict the appropriate information for the merchants. Built something similar to GoogleAnalytics.

DATABASE PROJECT

MENTOR: Prof. Radha Krishna

DESCRIPTION: Built a database query engine for a hospital database(Implemented in PHP and MYSQL)
User can insert,view,update or delete rows in the database.

FILE SHARING PROTOCOL

MENTOR: Prof: Shatrunjay Rawat

DESCRIPTION:

Built a file sharing protocol(a mini version of DC++) using socket programming in C that provides the facility to users to upload or download from the shared folder.

BUILDING A CLOUD BASED VIRTUALIZATION ORCHESTRATION LAYER

MENTOR: Prof. Vasudeva Verma

DESCRIPTION:

Built a fabric that can coordinate the provisioning of compute resources by negotiating with a set of Hypervisors running across physical servers in the data center. Implemented Resource Discovery,Resource Allocation and REST API Server.

BUILDING A COMPILER FOR DECAF PROGRAMMING LANGUAGE

MENTOR: Prof. Suresh Purini**DESCRIPTION:**

The project involved writing a parser for parsing the source code, using flex and bison, and detecting any errors; Constructing an AST of the given source code, using bison, Generating IR code from each of the nodes in the AST, and then evaluating this IR, using LLVM.

MINIPROJECTS

- Map-Reduce based project where hits to a page, hits from an IP, popular websites etc were extracted from the webserver log.
- Made a 2D carom board game implemented in C using **OpenGL**.
- Created an Image Viewer in Web2py whereby a user can upload the pictures and create an album and also view the album in a slide show and comment or like on other users album photos.
- Made a 32bit to 64bit Assembly code translator in python.
- Made a simple TODO list in android.
- Made a simple sqlparser.
- Custom Linux shell

Achievements

- Won the first prize in State Science Fair for mathematical modelling project based on integration in class tenth
- Secured a rank of 4369 in IIT-JEE(ADVANCED) from 1.5 lakh students.
- Secured 612th rank in All India Engineering Entrance Examination 2013 and a state rank of 12 from a million candidates.
- Dean's Award for Academics, Monsoon 2013
- Selected for Prototype Development Round Among top 5 teams in India in ICICI TRINITY

HANDLES

Github Handle: <https://github.com/kanika2107?tab=repositories>

Codechef Handle: <http://www.codechef.com/users/kanika2107>

Technical Skills

- Programming Languages: C , C++ , Matlab, Java(basic)
- Scripting Languages: Bash, Python, Javascript, Scheme
- Web Technologies: HTML, CSS
- Database Systems: MySQL
- Libraries, API, Tools: JQuery, GraphAPI , Facepy
- Frameworks: Django, Flask, Web2py
- Programming Environments: Vim (Moderate), Sublime
- Version Control: Git
- Android Programming
- Hadoop

Courses Undertaken

Computer Programming, IT Workshop1, Data Structures, Algorithms, IT Workshop2, Graphics, Formal Methods, Computer Networks, Artificial Intelligence, Mathematics1, Mathematics2, Digital Signal Analysis and Applications, Digital Logic and Processors, Computer system and Organization, SSAD, Introduction to Databases, Operating Systems, Principles of Programming Languages(ongoing), Compilers(ongoing), Cloud Computing(ongoing)