

ADITYA PANDE
 MALE, 21 YEARS
B.E.(Hons.)Mechanical (2011-2015)
CGPA: 8.44



EDUCATION

AISSCE (Class XII)	2010	Birla Vidyamandir, Nainital	91.4 %	1 st in class
ICSE (Class X)	2008	St. Joseph's College, Nainital	93%	2 nd in class

Electives Completed : Object Oriented Programming, Database Systems, Computer Graphics

Ongoing Electives: Cloud Computing, Network Programming, Data Mining

Independent Coursework (Coursera): Algorithms Design and Analysis, Machine Learning, Discrete Optimization, Interactive Programming in Python

INTERNSHIPS

Summer Intern, **Central Public Works Department**, Mussoorie May 2013-Jul 2013

- Developed a website to facilitate easier data handling and automatic monthly report generation using Django
 - The site digitalized CPWD's paperwork and generated reports which could be easily downloaded as Excel sheets

Professional Recognition

- Got recommendation from Executive Engineer, CPWD, Mussoorie for the database digitalization project

INDEPENDENT PROJECTS

- Conqueror Chess Engine (2014):**
 - Developed an open source chess playing program in C++ which beats chess programs like Microsoft Chess Titan
 - It has been rated at Elo 2100 by Elostat (<https://github.com/pandeaditya/Conqueror>)
- Parallel implementation of Smith Waterman algorithm (2013):**
 - Implemented the DNA alignment algorithm in parallel in CUDA
 - It gives a 5 times speed up (tested on a 48-core GPU device) as compared to the sequential implementation
- Smart Media Player (2013):**
 - Development of a Python based media player that generates subtitles/creates .srt files for itself and syncs them
 - It uses Google speech to text API and eliminates any dependency on subtitles

SKILLS

- Computer Languages:** C (expert), C++ (expert), Java (proficient), Python (proficient), Django (proficient), Matlab (proficient), Maple, HTML, CSS, MySQL (prior experience), PHP (prior experience), CUDA (prior experience), C#, Hadoop/HBase (prior experience), JavaScript (prior experience), Ruby (prior experience), AWK (prior experience)
- Tools and Systems:** Linux, Unity3d game engine, Blender, Git/Github, OpenGL, Photoshop CS5, SolidWorks, Abaqus

ACADEMIC ACHIEVEMENTS AND AWARDS

- APOGEE 2014 - Annual Technical Festival, BITS Pilani**
 - Winner of Microsoft CodeStorm - a 3 hour programming contest
 - Winner of International Coding League - a 2 hour programming contest
- Competition Programming (Ratings as of August, 2014):**
 - [SPOJ](#) (Sphere Online Judge) World Rank: 242
 - [Codechef](#) World Rank: 304
 - [Codeforces](#) Rating: 1694 (Expert)
- Rank **114** in ACM-ICPC Amritapuri Regionals (2013) as member of team Codeprog

POSITIONS OF RESPONSIBILITY

- As In-charge of Competitive Programming Special Interest Group In-charge (CPSIG):** 2013-2014
 - Instrumental in setting up CPSIG to promote programming in BITS through talks, lectures and coding contests
 - Organized 'AntiCoding' in APOGEE 2014. The event was hosted on a website we developed using HTML/CSS, JS, PHP and MySQL and the submitted codes were tested using a Python script
- As a Project Forum Member, Computer Science Association** 2013-2014
 - Ensured the completion of projects undertaken for APOGEE by organizing talks, meets and providing mentorship
- As Executive committee member of Computer Science Association (CSA)** 2012-2013
 - Organizer and problem-setter of 'CODESTORM', a national level coding competition

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Member of chess team of BITS College:
 - Won silver medal in Chess twice in BOSM 2011 and 2012, intercollegiate open sports meet held in BITS Pilani
 - Won a gold medal in Chess (classical) in FOYS 2013, an intercollegiate open sports meet held in SRCC Delhi

AREAS OF INTEREST

- Designing algorithms and data structures, Machine Learning, Artificial Intelligence, Game development