

Ketan Gupta

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Education

Indian Institute of Technology, Roorkee

Computer Science and Engineering

Bachelors in Technology, 2015-2019 (Expected)

- CGPA: *8.23/10*

Delhi Public School, Ranipur

PCM + Computer Science

2001-2015

- Senior Secondary – CBSE Overall Percentage: *96.8%*
- Secondary – CBSE Overall CGPA: *9.8/10*

Skills

Algorithms and Data Structures

- Selected for IOITC (International Olympiad of Informatics Training Camp).
- Selected for ACM ICPC Amritapuri Asia 2015, 2016 and ICPC Chennai 2016 Regionals.
- Frequent participant in Coding Contests held on Codechef, Topcoder, Codeforces, USACO, Hacker Earth, etc. (Handle: ketanhwr)
- Member of Programming and Algorithms Group (PAG) at IIT Roorkee.
- Selected for Indian Programming Camp, Mumbai organized by CodeChef.

Web Development

- Web Developer at SDSLabs and WatchOut! News Agency.
- Experienced in LAMP Stack, XAMPP. Also worked in MEAN Stack and Django (Python)
- Worked on Backdoor (<https://backdoor.sdslabs.co>) and Erdos (<https://erdos.sdslabs.co>), both made using vanilla PHP.
- Also contributed to Play (<https://github.com/sdslabs/play>), made using node.js

Game Development

- Experienced in Unity3D game engine and made some Indie games in it.
- Experience in C++ Game Development. Made PONG, Angry Birds and Bounce without using any physics engine or graphics engine.
- Made many web games using HTML5 and JavaScript. Hosted some on GitHub. (Username: ketanhwr)

Projects

- Microsoft code.fun.do 2015
Made an app for Universal Windows Platform within 24 hours which helps doctors in tracing a health problem in someone's family tree using graph theory. Selected for top 5 ideas among 200 teams.
- Backdoor (<https://backdoor.sdslabs.co>)
A web app made in LAMP Stack for holding CTFs (Capture the Flag) competitions and for practicing network security skills.

- **Erdos** (<https://erdos.sdslabs.co>)
A website similar to Project Euler (<https://projecteuler.net/>) made in LAMP Stack for holding competitive mathematics competitions.
 - **Reflexio** (<https://github.com/ketanhwr/reflexio>)
A web game based on reflection made purely in HTML5 and Javascript. Completed it for IndiaHacks Game Development Track. Finished among top 20 in around 10,000 participants.
 - **http-server** (<https://github.com/ketanhwr/http-server>)
A simple HTTP server written in C using UNIX sockets. Supports GET and HEAD requests.
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Relevant Courses

Fundamentals of Object Oriented Programming	Differential and Integral Calculus
Introduction to Computer Science and Engineering	Optimization Techniques
Data Structures	Discrete Structures
Object Oriented Analysis and Design	Computer Architecture
Signals and Systems	Digital Logic Design

Academic Achievements and Scholarships

- All India Rank 448 in Joint Entrance Exam Advanced (2015) among 150,000 candidates.
 - All India Rank 271 and State Rank 1 in Joint Entrance Exam Mains (2015) among 1.5 million candidates.
 - National Talent Search Examination Scholarship (NTSE) awardee.
 - Qualified Regional Mathematics Olympiad (RMO) and National Standard Examination in Astronomy.
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Areas of Interest

- Algorithms and Data Structures
 - Web Development
 - Game Development
 - Machine Learning
 - Network Security
 - Operating Systems
 - Open Source Development
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Technical Skills

Programming	C/C++, Python, Java, JavaScript, PHP, C#, Perl, Ruby
Game Dev	Unity3D, Unreal Engine, HTML5/JS, C/C++, OpenGL
Web	PHP (Vanilla, Laravel), Node.js (Express.js), JS (jQuery, Angular), Python (Django)
Utilites	Vim, Git, GDB, Sublime Text, OpenGL, MATLAB
Platforms	Arduino, Universal Windows Platform, Android, Linux

Co-curricular Activities

- Music enthusiast. Completed a 5 year course in Classical Vocal Music.
- District Level Badminton and Table Tennis player.
- Painter and Sketcher. Participated successfully in many school and district level competitions.