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 Onsite round.
- 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.
- Developed and managed a website to conduct a local level programming contest built using HTML, CSS, JS, PHP and MySQL.

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 phyiscs engine or graphics engine.
- Made many web games using HTML5 and JavaScript. Hosted some on GitHub. (Username: ketanhwr)

Projects

- **Microsoft code.fun.do 2015**
  Successfully 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.

- ### Game on Graphs
  Made a small game on graphs using basic graph theory for a school project. It was made using C++ and used basic graph theory concepts like BFS and DFS.

- ### 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.

Relevant Courses

Fundamentals of Object Oriented Programming	Mathematics-I
Introductiont to Computer Science and Engineering	Optimization Techniques
Data Structures	Discrete Structures
Object Oriented Analysis and Design	Computer Architecture
Signals and Systems	

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 (NSEA).

Areas of Interest

- Algorithms and Data Structures
- Game Development
- Image Processing
- Network Security
- Operating Systems
- Open Source Development

Technical Skills

Programming Languages	C/C++, Python, Java, JavaScript, PHP, C#, Perl
Game Development	Unity3D, Unreal Engine, HTML5/JS, C/C++, OpenGL
Web Development	HTML, CSS, Javascript, Jekyll, jQuery, PHP
Operating Systems	Windows, Linux (Ubuntu and Fedora)
Utilites	Vim, Git, GDB, Shell Scripting, Sublime Text, OpenGL
Platforms	Arduino, Universal Windows Platform, Android

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.