

Ketan Gupta

COMPUTER SCIENCE UNDERGRADUATE · OPEN SOURCE ENTHUSIAST

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Education

Indian Institute of Technology Roorkee

Roorkee, India

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

July 2015 - PRESENT

- Cumulative Grade Point, CGPA: 8.37/10

Achievements & Scholarships

2018	1st Place , Inter IIT Tech Meet - Orbital Simulator	IIT Madras
2017	Google Summer of Code , Participant	India
2016	39th Place , ICPC Amritapuri Regionals	Bangalore, India
2016	32nd Place , ICPC Chennai Regionals	Chennai, India
2016	17th Place , IndiaHacks Game Development Sprint; 10,000 participants	Bangalore, India
2015	All India Rank 448 , Joint Entrance Exam Advanced; 150,000 candidates	India
2015	All India Rank 271 , Joint Entrance Exam Mains; 1.5 million candidates	India
2015	International Olympiad of Informatics Training Camp , Qualified INOI	Bangalore, India
2011	NTSE Scholarship Awardee , Government of India	India

Work Experience

Elanic

Bangalore, India

BACKEND DEVELOPER INTERN

December 2017

- Optimised the existing chat server by modifying schema and refactored code.
- Worked in Node.js and Mongoose.

Google Summer of Code 2017

Work from Home

TILED MAP EDITOR

May 2017 - PRESENT

- Contributed towards the launch of Tiled 1.0 and 1.1
- Added support for Infinite Maps, so that tiles can be drawn without worrying about the boundaries.
- Added Layer Locking and Move Selection feature. Also made a lot of improvements in Polygon Editing Tools.
- Worked in C++ and Qt Framework along with professional game developers.

Projects

Exylus github.com/ketanhwr/exylus

IIT Roorkee

OPERATING SYSTEM

June 2017

- Created a microkernel written for x86 system in C and Assembly (AT&T Syntax).
- Added a basic VGA driver, keyboard driver and PIT.

Aasha <https://github.com/ketanhwr/aasha-backend>

IIT Roorkee

COURSE PROJECT, PROF. SANDEEP K. GARG, MICROSOFT CODE.FUN.DO SUBMISSION

Feb. 2017 - April 2017

- Created a mobile app for providing medical assistance and access to visiting doctors for patients in rural areas.
- Designed backend API as well as front end for desktop users of Aasha.
- Selected for campus onsite event on Microsoft Code.Fun.Do
- Worked in PHP using Laravel Framework. Used Bootstrap for frontend.

Backdoor <https://backdoor.sdslabs.co>

IIT Roorkee

SDSLABS

Oct. 2016

- Created an admin panel for easily managing competitions and uploading/modifying challenges.
- Worked in vanilla PHP and jQuery.

Extracurricular Activity

SDSLabs

DEVELOPER

IIT Roorkee

Jan. 2016 - PRESENT

- Involved in developing applications for campus students as well as open to Internet.
- Added admin panel in Backdoor to manage competitions, challenges and notifications. Worked primarily in PHP and jQuery.
- Added volume support for Play. Based on Express Framework(Node.js).
- Added option to see friends standings in Erdos. Worked primarily in PHP.

Programming and Algorithms Group

MEMBER

IIT Roorkee

Oct. 2015 - PRESENT

- Involved in organising lectures and competitions based on competitive programming for campus students as well as for people outside college.
- Qualified for ICPC Regionals in 2015 as well as 2016. Also selected for ICPC India Finals 2016.
- Participated in Indian Programming Community Camp organised by CodeChef in Mumbai.

Watch Out! News Agency

WEB DESIGN HEAD

IIT Roorkee

Sep. 2015 - PRESENT

- Involved in maintaining the website for official campus magazine. Worked in Jekyll, Bootstrap and SASS.

Student Mentorship Program

MENTOR

IIT Roorkee

Oct. 2016 - PRESENT

- Involved in mentoring, guiding and helping the freshmen of IIT Roorkee.

Proged - Programming Redefined

Co-FOUNDER

DPS Ranipur

Aug. 2014 - March 2015

- Started a computer club in my high school for students interested in programming and other technical activities.
- Organised lectures on Game Development, Robotics and Android Development.
- Conducted workshop and contests on competitive programming to promote IOI among school students.
- Made a simple judge to conduct programming contests: CodeRed

Skills

Programming Proficient: C/C++, PHP, Node.js; Experienced: Python, Java, C#

Web Laravel with PHP, Express.js with Node.js, React-Redux

Game Development Unity3D, Unreal Engine, HTML5/JS, C/C++, OpenGL

Utilities Git, Sublime Text, Linux shell utilities, GDB, \LaTeX , Vim

Coursework

A Design and Analysis of Algorithms

A Data Structures and Algorithms

Computer Architecture

Theory of Computation

Computer Networks

i Principles of Programming Languages

A: grade

A Operating Systems

Discrete Structures

Object Oriented Analysis and Design

A Database Management Systems

Network Programming

i Compiler Design

i: In progress

Miscellaneous

- Frequent blogger. Maintains a tech blog at ketangupta.in/blog
- Music Enthusiast. Completed a 5 year course in Classical Vocal Music. Also play Violin and Ukulele.
- Speedcuber. Can solve 2x2x2, 3x3x3, 4x4x4, 5x5x5, Megaminx and Square-1. Can also solve 3x3x3 One-Handed and Blindfolded.
- District Level Badminton and Table Tennis player. Was part of NSO Table Tennis Team in freshman year.