

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: 8.337/10

Achievements & Scholarships

- 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

Google Summer of Code 2017

Work from Home

TILED MAP EDITOR

May 2017 - PRESENT

- General Improvements and Bug Fixes for Tiled
- Worked in C++ and Qt Framework along with professional game developers. Added handful of useful features requested by the community along with fixing bugs during the release of Tiled 1.0

Projects

Exylus github.com/ketanhwr/exylus

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OPERATING SYSTEM

June 2017

- An operating system written for x86 system in C and Assembly (AT&T Syntax).
- Has a basic VGA driver, keyboard driver and PIT.

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

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

Feb. 2017 - April 2017

- Aasha is 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>

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SDSLABS

Oct. 2016

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

Reflexio github.com/ketanhwr/reflexio

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GAME DEVELOPMENT

Jan. 2016

- A game based on reflection written in Javascript and HTML5.
- Completed from scratch in 3-4 days for IndiaHacks Game Development Hackathon. Finished in top 20 among 10,000 participants.
- Finished 17th in Onsite Event in Bangalore, India.

Extracurricular Activity

SDSLabs

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DEVELOPER

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

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MEMBER

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

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WEB DESIGN HEAD

Sep. 2015 - PRESENT

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

Student Mentorship Program

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MENTOR

Oct. 2016 - PRESENT

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

Proged - Programming Redefined

DPS Ranipur

Co-FOUNDER

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, ReactJS

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

System Software

Computer Architecture

A Introduction to Object Oriented Programming

i Theory of Computation

i Computer Networks

A: grade

A Operating Systems

Discrete Structures

Software Engineering

Object Oriented Analysis and Design

A Intro to Computer Science and Engineering

i Database Management Systems

i Network Programming

i: In progress

Miscellaneous

- 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.