Haresh Khanna

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FDUCATION:

- Indian Institute of Technology, Roorkee

2015 - Present

Bachelors of Technology Computer Science and Engineering

o CGPA - 8.955/10

- DAV International School, Amritsar

2000 - 2015

- o Senior-Secondary CBSE, Percentage: 95.8%
- o Secondary CBSE, GPA: 10.0/10.0

ACHIEVEMENTS AND AWARDS:

- Smart India Hackathon

2017

- Selected for grand finale of the event being organised by Government of India.
- o Submitted a proposal for end to end app for MGNREGA scheme, in place of the current B2B app.
- Microsoft Code.Fun.Do

2017

- Selected among top 4 teams from freshers and sophomores.
- **o** Developed a android and web application to help rural people with improved medical facilities.
- InOut 3.0 Hackathon, SVNIT Surat

2016

- Developed a web application using Node.JS and JavaScript to play music in sync among various devices connected on a local network.
- Selected among top 7 teams among more than 50 participant teams from around the country. Team name "**dracarys**".
- ACM ICPC, Amritapuri Regionals

2015

- Selected for participation in regional contest based on performance in online round.
- Secured a rank in top 100 among more than 1500 participant teams. Rank list is available here http://bit.ly/2dQFrW4. Team name "1024hph".
- JEE Advanced and JEE Mains

2015

- All India Rank of 392 in JEE Advanced, 2015 among the 1.5 lac participating candidates.
- All India Rank of 1249 in JEE Mains, 2015 among 13 lac participating candidates and emerged as the Amritsar City Topper in JEE Mains.
- Kishore Vaigvanik Protsahan Yoiana (KVPY)

2014

- All India Rank of 321 in KVPY, 2014. Rank list here http://bit.ly/2cL2U66.
- National Standard Examination in Physics (NSEP)

2014

- Awarded with a certificate of merit for being in **State-wise top 1%**.
- CBSE Group Mathematical Olympiad (GMO)

2013

- Selected among top 30 candidates in GMO conducted by CBSE. Rank list http://bit.ly/2cl_el8B
 (Roll no 110). Participated in INMO (Indian National Mathematical Olympiad) representing the CBSE group.
- National Talent Search Exam (NTSE)

2013

• Awarded with NTSE scholarship in Grade – 10 by NCERT.

PROJECTS:

- Aasha the Rural Doctor
 - o Made an android app and web application for persons to book appointments
 - o Made a **SMS server** which receives SMS from patient's phones and updates the online database, basically making an abstraction of network calls over SMS. SMS server is currently just an android phone and when the patient opens the app, if internet is unavailable, all the functioning of the app including login and signup happen over SMS and the database is updated in real-time.
- Stroom
 - o Made a music player that streams music from "SoundCloud" using API calls.

o A local server was setup using **Node.JS** that kept all the devices on the local network to play music in synchronisation.

- MagnetoMania

- o Developed in **libGDX**, the gameplay involves dodging obstacles on the screen and collecting floating score bubbles appearing periodically on screen, without lifting the finger.
- o Obstacles are in forms of weapons which are targeted towards finger position and occurrence is periodic in random order.
- o It being a cross platform game, only once coded can be deployed on Android, iOS and Web.

- Music Synthesis

- o Made in Python, this program outputs a MIDI file based on a string input.
- o This MIDI is basically unique for every string input as it is based on SHA-256 hash of the string which is input.

- Bluetooth P2P Tic-Tac-Toe

- o Developed in Native Android, this is a same old Tic Tac Toe but it has an added feature.
- o Game can be played on two devices with each device for a player and data transfer is over Bluetooth.

- GPS Object tracker

- o Developed in C#, it is a universal windows application which stores the coordinates of almost anything.
- o At any location just press a button on the application and GPS coordinates are stored and synced with Microsoft Azure cloud server.

WORK AND VOLUNTEERING:

- Android App Developer, SDS Mobile Development Group, IIT Roorkee

I'm currently working as an android app developer in Mobile Development Group, IIT Roorkee. The group works for making android and iOS apps and promoting app development within the campus.

- News Editor, Watch Out News Agency, IIT Roorkee

I'm a member of the News Bureau in Watch Out, the official news magazine of IIT Roorkee. The magazine covers all major events within the campus, along with any policy changes etc., and also works on literary articles, comics etc. for a half yearly magazine and a weekly updated website.

Associate Mentor, Student Mentorship Programme, IIT Roorkee

I am a member of the student mentorship team in IIT Roorkee. It is a student run initiative in order to provide suitable guidance and help to the fresher's that come in college. The main objective of the group is to make the freshers comfortable with IIT Roorkee and help them at any point of need.

- Web Manager, ACM Student Chapter IIT, Roorkee

I work as a web manager in ACM student chapter IIT Roorkee. The group works to promote the knowledge of computer science and programming in the campus.

Volunteer, National Service Scheme, IIT Roorkee

I worked as a volunteer in National Service Scheme running on campus, and contributed actively in all the events organized, like blood donation camps, tree plantation drives, teaching students from weaker economic sections, etc.

SKILLS

Programming Languages
Web Development
Game Development
Utilities
Platforms

C/C++, Java, JavaScipt, Python, PHP, VHDL, Verilog HTML, CSS, JavaScript, Jekyll, Node.JS, PHP libGDX, Unreal Engine, Native Android Git, Sublime Text, Android Studio, Microsoft Azure, Heroku Android, Universal Windows Platform