Name: Tarun Sharma Address: No. 3256, 13th Cross,

Indiranagar, College: PESIT, Bangalore (batch of 2013-2017) Bangalore, 560 008

Branch: CSE 4th semester

DOB- 10.09.1994 Phone: +918892065034

Email: [tarunsharma.pes@gmail.com](mailto:tarunsharma.pes@gmail.com)

GitHub user name: tarunsharma1

**ACADEMIC DETAILS:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Education | Institute | University | Year of passing | Percentage |
| 1st year BE | PESIT | PESIT | 2014 | CGPA-9.55 |
| 12th std | Frank Anthony Public School | I.S.C | 2013 | 96% |
| 10th std | Frank Anthony Public School | I.C.S.E | 2011 | 94% |

**TECHNICAL KNOWLEDGE**

* Data Structures, OOPS, Java, C, Python, PHP, HTML, CSS, JavaScript, Ajax.
* Windows Phone development, Windows Store app development, Android Development.
* Image processing, gesture recognition and object detection using OpenCV.
* Object detection with and without haar classifiers in OpenCV.
* Machine Learning concepts and algorithms.
* Raspberry Pi and Arduino and various sensors such as gyroscope, accelerometer, IMU, light sensor, temperature sensor, ultrasonic sensors etc.
* Websockets in java, C#, python and NodeJS.
* SQL and SQLite databases.
* Libraries and APIs used: Scikit Learn,Weka tool, Octave, OpenCV, haar classifiers, JQuery, RestSharp, Google Earth APIs, YouTube APIs, Dweet.io, ScriptCam, Alchemy API, Similar Web API etc.

**PROJECTS**

* Completed a real time video content based ad generator, which generates an ad based on the current content of the video in real time. Used Google Speech to Text API, Alchemy API and ffmpeg. The entire project is written in PHP, JavaScript and HTML.
* Completed a content based android app recommender, build entirely using Java, which recommends an app to the user based on his/her present interests, by analyzing the content of his most visited websites(Used SimilarWeb API and scraped Play Store).
* Completed and published an app ‘Hands Free Cake Book’ on the Windows store for desktop which involves computer vision and hand gesture recognition.
* Worked on a project in collaboration with MIT Media Labs, called Sense Makers, to help NGOs spread awareness effectively by automating the process of audience based localized comparisons to tragedies they can relate to, and also used infographics to make sense of the data.
* Made an online education system with features such as real time in video doubt tagging and geolocation using google maps API. Also implemented a ranking algorithm.
* Made a relief drone, a quad copter which is controllable through the internet, and uses image processing to detect humans in the video stream. Used Raspberry Pi and Arduino, various methods of communication, i2c, serial, websockets etc. Also made a windows phone app as flight controller. Have done a lot of research into various topics around the project and this has given me a lot of insight into systems, embedded technologies, various methods of communication, image processing etc.
* Made an augmented reality keyboard using OpenCV.
* Made an efficient text compressor using Huffman coding algorithm in Java and compared the time efficiencies of multiple implementations with different data structures.
* Completed an android app ‘greenify’ which is targeted at helping the community and local municipality.
* Completed a Windows Phone app ‘stay connected’ targeted at connecting various college campuses for events like hackathons and also providing ratings for the hackathons (based on our algorithm). Used SQLite and MySQL databases.
* Made an application using which a user can use his windows phone as a Wii remote to play any PC game. Made use of web sockets in a NodeJS server and also Java’s Robot class.
* Made a ‘Rock Paper Scissors’ game app for windows phone on the XNA platform.
* Made a model of an elevator using electromagnets in 12th standard.

**ACHIEVEMENTS**

* First Runners Up at What The Hack 2014, a hackathon organized by SAP Labs for SAP Labs employees and students from all over the country.
* Awarded ‘Best Out of the Box Idea’ prize by SimpliLearn at a hackathon which was open to students and working IT professionals.
* Top 33 of Inmobi hackday 2014 out of 300+ shortlisted developers (including working techies).
* Was one among the 300 shortlisted candidates to participate in the MIT Media Labs Design Innovation workshop 2015, out of 8000 plus applicants from all over the country including engineers, designers, entrepreneurs etc.
* Open source contributor at Foundation for Learning Equality.
* Intern at Student Nokia Developer from June 2014 - August 2014.
* Developer at Student Nokia Developer Forum from September 2013 till date.
* Published an App ‘Hands Free Cake Book’ on the windows store which has 2000+ downloads from 95+ countries.
* Conducted a hands-on session at Alliance University for third and fourth years of CSE and ISE department on the topic ‘Windows phone development using SQLite’.
* Completed a coursera course on ‘Machine Learning’ by Stanford University.
* Was part of the team that organized many events in college such as Incito ’14, #code ’14, Prakalpa ’14.
* Participated in hackathons like #code13, #code14, Ayana 14, Inmobi hackday 14, SAP Labs What The Hack 2014 and attended workshops like Microsoft Bootcamp, PyCampus (On Django), workshop on JavaScript by University of Texas Dallas.
* Won 2nd place at Atmatrisha ‘14 for the event ‘Western Acoustics’ (Guitar).
* Won 1st place at the EWD event, ’Inter-Section football tournament’.
* Topped the school in 12th std. board examination.
* Was appointed as school prefect in class 11 and 12.

I hereby declare that the information furnished above is true to the best of my knowledge.

**PLACE: BANGALORE**. **TARUN SHARMA**