Shubhang Sati

Roll number: 2016198

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Education

Indraprastha Institute of Information Technology, Delhi B.Tech.(ECE) 2016 – Present	CGPA: 7.02
Dwarka International School, New Delhi CBSE 2015 – 2016	Percentage: 93
Dwarka International School, New Delhi CBSE 2013 – 2014	CGPA: 10

Skills

Expertise Area	Computer Graphics, Web Development, Data Structures and Algorithms
Programming Language	Python, C++, Java, JavaScript, C#, Verilog, MATLAB
Tools and Technologies	jQuery, Flask, HTML5, CSS3, Arduino, FPGA Programming, Unity3D, Unreal Engine, OpenGL
Technical Electives	Virtual Reality, GPU Computing, Computer Vision, Computer Graphics, Foundations of Computer Security, Competitive Programming 2/1, Graph Theory, Embedded Logic Design, Advanced Programming

Internships

Codechef Summer Programming Camp Trainer (May,19 - Jun,19)
I was one of the trainers at the codechef summer programming camp for school students. I was responsible for creating lesson and session plans and teach the basics of computer programming to school students.

Commonlounge (Industrial) (Aug,18 - Sep,18)
Guide: Keshav Dhandhania Team Size: 1
Commonlounge is an educational platform with wiki-based bite-sized tutorials. I created a complete beginner programming course on JavaScript. I was responsible for creating the course structure and content as well.
https://bit.ly/2V9OWRi

M19G (Industrial) (May,18 - May,18)
Guide: Kibeom Kim Team Size: 3
A web platform using which people can create games on the web using Python and share with others. The tech stack included C++, MicroPython, Emscripten, Polymer, NodeJS, Cassandra and BabylonJS. I worked on developing MicroPython APIs for the game environment.

Maadhyam (Industrial) (April,18 - April,18)
Guide: Maansi Verma Team Size: 1
Maadhyam is a platform to enable stakeholder engagement with policy making. I worked on the front-end of their web platform.

Mojoland (Industrial)
Mojoland is an amusement park. I redesigned and made their website. (July,17 - Aug,17)
https://shubhangsati.github.io/mojoland2/ Team Size: 1

Projects

3D scene creation using cartoon sketches (Mar, 19 - Apr, 19)
Guide: Dr. Ojaswa Sharma — Team Size - 3
We made an application that allows users to convert their hand-drawn cartoon sketches into 3D models. Users can also create a 3D scene using such objects and place them around the scene using hand gestures.

Efficient Random Number Generation (Mar, 19 - Apr, 19)
Guide: Dr. Ojaswa Sharma — Team Size - 2
This project demonstrated the efficiency of GPUs to generate pseudo-random numbers. We compared sequential and parallel implementations of several PRNGs. We also estimated the value of pi using the generated random numbers.

Secure Banking System (Sep, 18 - Nov, 18)
Guide: Dr. Arun Balaji Buduru — Team Size - 4
A "secure" web app for an online banking system. This was a part of the "Foundations of Computer Security" course.
https://github.com/shubhangsati/secureBankingApplication

3D Campus Reconstruction (Oct, 18 - Nov, 18)
Guide: Dr. Ojaswa Sharma — Team Size - 4 / 13
The objective of this project was to create a 3D model of the campus and a software that renders this model and allows the user to walk through the virtual campus. I was responsible for programming a drone to click pictures of the entire campus and construct the model from these pictures.
https://github.com/ojaswa/2018_CSE333_Project_Team1

Audio Encryption/Decryption System (Oct,17 - Nov,17)
Guide: Dr. Anubha Gupta — Team Size - 3
A system to encrypt audio signals into images and then decrypt them. It uses the Python Image library to read and write images.
https://github.com/shubhangsati/SNS_Project

Chain Reaction Clone (Sep,17 - Nov,17)
Guide: Dr. Vivek Kumar — Team Size - 2
Clone of the popular game Chain Reaction. It was made using the JavaFX framework. It is a strategy game for 2-8 people. The objective is to eliminate opponents' orbs and take control of the game board.
https://github.com/shubhangsati/ChainReaction

Image Map (Apr,17 - May,17)
A web app that lets users upload multiple geo-tagged images and then plots the corresponding locations on the map. Backend is made in Django. — Team Size - 1
https://github.com/shubhangsati/imagemap

Positions of Responsibility

- Head of CSE Events, Esya 19 (Apr, 19 - current)
- Lead Organizer, TEDxIIITD 19 (Oct,18 - Mar, 19)
- Website Manager, TEDxIIITD 18 (Dec,17 - Mar,18)
- Event Head, HackIIITD | Esya 17 (May,17 - Aug,17)
- Volunteer: Student Induction 17, Jugaadathon, INOI Workshop, Esya 16 (Aug, 16 - Aug, 17)
- Head boy, Dwarka International School (Aug,15 - Apr,16)

Awards and Achievements

- **Honourable Mention**, INOI, 2016
- **World Rank 69**, World Cup - University level Codesprint, Hackerrank, 2015
- **School Topper**, Times NIE quiz, 2014
- **AIR 5**, NASA Astronomy Olympiad, 2013

Declaration: The above information is correct to the best of my knowledge.
Shubhang Sati
Date: June 26, 2019