KANISHK RANA

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DOB: Feb 26, 2000

Education

Indraprastha Institute of Information Technology	CGPA: 7.49
B.Tech(CSAM)	(current)
2017 – Present	
SM Arya Public School, New Delhi	Percentage: 93
CBSE	
2016 – 2017	
SM Arya Public School, New Delhi	CGPA: 9.8
CBSE	
2014 – 2015	

Skills

Interest Area	CTF, Problem Solving,Teaching,Algorithms,Machine Learning
Programming Language	Python, Java
Tools and Technologies	HTML-CSS,Bootstrap,JavaScript,LaTeX,OpenCV,MIT App Inventor,Unity ArduPilot,Game Engine,Android Studio,XAML,,Shell Scripting,
Technical Electives	Advance Programming, Competitive Programming-1
Certifications	Machine Learning by Stanford University on Coursera IBM Data Science Professional Certificate, a 9-course specialization by IBM on Coursera Web Development(Internshala)

Internships

Analyticscosm | Team Leader Machine Learning   (Jun'19-Present)

Machine Learning Project requiring to collect data from social media and classify images as shareable and unshareable. This project is a part of an automation project which aimed small enterprise manage their social media account effectively.

Aam Aadmi Party | Data Science Intern   (Jun'19-Present)
Advisor: Arjun Joshi
Responsibility includes collecting data for problems that are relevant to social causes like healthcare facilities , small enterprise loan , education etc and analyse it. Insights from these data often culminated in discussions that were stepping stones for public policy.

Verzeo | Machine Learning Intern   (Jun'19-Jul'19)

Worked on text summarization and real time object detection project by extending the categories of the commonly seen objects to 89. Also responsible for clearing doubts of junior interns.

Evelyn Learning System | Subject Matter Expert   (Jun'19-Jul'19)
(In-Office Internship)
Responsible for training interns in MATLAB, MAPLE, Java and Python. Also responsible for curating content for graduate level mathematics textbooks.

Feedough | Contributing Writer   (Sep,18 –May'19)

Responsible for writing SEO friendly content on topics specifically aimed at helping entrepreneurs.

All in One Cyberteam | Content Development Team   (Dec,18 –Dec,18)

Created questions and tutorials for various topics on the lines of CTF competition held around the world.

Volunteer

Adarsh Public School | Instructor   (May,18-Jul,18)

Taught Science,Math and Computer Science to school students who were academically weak.

Research Project

Prediction of Security Breaches in Partially Observable Environments
Advisor:Dr Arun Balaji Buduru
The project deals with anomaly detection by training/testing the network traffic of AWS using a novel architecture of LSTM and Markov Decision Processes. Currently under review for submission to 7th ACM IKDD CoDS and 25th COMAD.

Projects

Web Development(Entrepreneurial)   (Feb'18-Jun'18)
The project generates name for a product based on the keywords and   Team Size-3
industry and also provide functionality of checking domain availability.

Game Development | Snake vs Blocks   (Nov,18 – Nov,18)
Designed the game UI and logic in Java using JavaFX library   Team Size-2

Two Pass Assembler   (Oct,18 – Nov,18)

Designed a two pass assembler in Python to convert a given set of instructions into machine code with generation of various tables like Literal Table, Symbol Table etc.

Web Development (Oct,18-Oct,18)

Created a personal webpage using HTML,Bootstrap and JavaScript. kanishkrana.me

Surveillance System for Detecting Unknown Person (Aug,18 – Aug,18)
Team Size-2
Designed a surveillance system to detect unknown person in a given area using OpenCV library of python with feature of monitoring intrusions in real time.

IoT Based Automatic Bed for Changing Diaper (Mar,18-Apr,18)
Team Size-4
Designed a bed to change diaper of adult person using frame made up of MDP and controlled via an app made by MIT App Inventor. SMS alert for abnormal conditions was sent over SMS gateway using Twilio.
The bed was named ABCD-399(Automatic Bed for Changing Diaper).

Interactive Smart Lamp (Feb,18-Mar,18)
Team Size-4
Designed a smart lamp with innovative features like study-mode, ambient light self-adjustment,party-mode with 360 degree horizontal and 150 degree vertical positional freedom controlled via an app made using MIT App Inventor and sensors like bluetooth module.

Link for Projects

Awards and Achievements

- InCTF by Amritapuri University Rank   3 in India, Qualified for Onsite Finals
- Recognized by Dainik Jagran for ABCD-399   Link to Publication
- Bronze Medallist,100m Sprint   (Inter School,West Zone,Delhi,2015)
- NTSE Scholar,Delhi Region   (State Rank-110,2014)
- JSTSE Scholar   (State Rank-52,2013)
- 3rd Position,Student Innovation- Designed a solution for dealing with toxic fumes from a factory,2012

Positions of Responsibility

- Organizing Team | Event Head | IPL Auction Esya'18   (Aug 18)
- Aurora UAV Team, IIITD | Responsible for making unmanned   (Sep 18-Present)
  missions using ArduPilot and working with PixHawk
- Webcast Team, IIITD | Recording and streaming live of seminars (Sep 18 – Present)
  conducted in college
- Member | d4rkc0de | Cyber Security Club,IIITD   (Oct 18 – Present)
- Manager | E-Cell, IIITD | Responsible for conducting and planning (Oct 18 – Present)
  of events like SnackChat , Shark Tank etc
- Member | Trivialis Quizzing Club,IIITD | Responsible for   (Aug 17-Present)
  conducting quizzes on various topics

Declaration: The above information is correct to the best of my knowledge.
Kanishk Rana
Date: Aug 10, 2019