

# ANIESH CHAWLA

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Pursuing MS in ECE from Purdue and seeking summer internship opportunity in Data Mining and/or Computer Vision.  
A leader and an excellent team player with more than 5+ years of experience in computer engineering and data analysis.

## EDUCATION

<b>PURDUE UNIVERSITY</b>		West Lafayette, IN
Master of Science in Computer Engineering	4.0/4.0	2017 - 2019
<b>INDIAN INSTITUTE OF TECHNOLOGY (IIT), DELHI</b>		Delhi, India
Masters of Technology in Information and Comm. Tech	8.5/10	2006 - 2011
<b>INDIAN INSTITUTE OF TECHNOLOGY (IIT), DELHI</b>		Delhi, India
Bachelors of Technology in Electrical Engineering	7.9/10	2006 - 2011

## RELATED COURSEWORK

Computer Vision, Data Mining, Linear Algebra, Random Variables, Graph Theory, Computer Graphics

## TECHNICAL SKILLS

- Proficient in C/C++, Python, PyTorch, SQL, SAS, Erlang, MySQL, MongoDB, Apache Storm, Kafka, Elastic Search

## ACADEMIC PROJECTS & EMPLOYMENT

<b>Master's Project</b>	West Lafayette, IN
<b>Reliability of Network Cameras, Purdue</b>	(Jan 2018 – Present)
<ul style="list-style-type: none"><li>Architecting the plan for selecting the various Image parameters for detecting defocussed cameras, hues in images, etc by using OpenCV along with transient environment detection in order to identify anomaly in network cameras</li><li>Planned proposal for utilizing Machine Learning algorithms like CNNs on traffic camera feed to identify a possibility of disaster situation and raise a flag to inform the authorities</li></ul>	
<b>Teaching Assistant, Advanced C programming</b>	(Jan 2018 – Present)
<ul style="list-style-type: none"><li>Developing assignments for students and creating scripts in bash and python for automatic grading</li><li>Teaching students about various tools for debugging C code eg. valgrind, gdb, gcov etc during lab hours</li></ul>	

## EXPERIENCE

<b>SANCTUM NETWORKS, INDIA</b>	Bangalore, India
<b>Product Engineer</b>	(March 2015 – April 2017)
<ul style="list-style-type: none"><li>Architected software solution for collecting, analyzing &amp; interpreting network data for Liberty Global</li><li>100 times scaled up performance by introducing Apache Storm and Kafka architecture in software codebase</li><li>Led a team of 5 people to enable SDN based Wi-Fi/IoT orchestration at SOHO by leveraging Netconf</li><li>Integrated the solution with various hardware vendors for enabling DOCSIS orchestration across various hardware to showcase vendor agnostic solution</li></ul>	
<b>INDIAN INSTITUTE OF TECHNOLOGY (IIT), DELHI</b>	Delhi, India
<b>Project scientist</b>	(March 2014 – March 2015)
<ul style="list-style-type: none"><li>Modified the TCP protocol to reduce latency in Wi-Fi services. This led to increased performance of TCP by 20%. The results were verified by testing on both NS3 simulations and Linux machine</li><li>Awarded poster publication in COMSNETS 2017 and paper publication in NCC</li></ul>	
<b>AMERICAN EXPRESS</b>	Gurgaon, India
<b>Business Analyst</b>	(March 2012 – March 2014)
<ul style="list-style-type: none"><li>Spearheaded Big Data initiative in Fraud Strategy by integrating new capabilities like Sequence Mining, Random Forest, K- nearest neighbor specifically for proactive detection of fraud at POS. Awarded Analyst of the Quarter</li><li>Managed credit card fraud for global market by using SQL and SAS technologies</li></ul>	

## PUBLICATIONS

- Singh, D.; Singh, V.; Chawla, A.; Pangtey, S.; Ribeiro, V., "UDA: Fast Transport Protocol for D2D Networks over WiFi" poster, Communication Systems and Networks (COMSNETS), 2017 9th International Conference, 3-7 Jan. 2017
- Chawla, A; Yadav, V.; Dev Sharma, V.; Bajaj, J.; Nanda, E.; Ribeiro, V.; Saran, H., "RODEO: Robust and rapidly deployable TDM mesh with QoS differentiation," Communication Systems and Networks (COMSNETS), 2012 Fourth International Conference, vol., no., pp.1,6, 3-7 Jan. 2012