SAURABH MISRA

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EDUCATION	
Carnegie Mellon University	Pittsburgh, PA
Master of Science in Electrical and Computer Engineering	May 2019
GPA 3.56/4.0 - Honor: James R. Swartz Entrepreneurship Fellow	
Selected Coursework: NLP, Deep Reinforcement Learning, Cloud Computing, Intro to ML, ML	Text Mining
Indian Institute of Technology (BHU) Varanasi, India	
Bachelor of Technology in Electronics Engineering	May 2015
GPA: 8.21/10	

SKILLS

Domains of competence: NLP, Machine Learning, Software development, Cloud Computing Programming Languages: (Proficient) Python, C++; (Familiar) Java, Perl, C, Scala, Javascript Frameworks and tools: Tensorflow, Keras, Hadoop, Spark, Android, Scikit Learn, Pandas, Matlab, GDB, Perforce, Git

PROFESSIONAL EXPERIENCE

Carnegie Mellon University, CyLab	Pittsburgh	
Research Assistant	May 2018-Present	
• Built a new state of the art Deep Learning Password Cracking architecture by leaked passwords using LSTMs. To be incorporated in Google Products as a p	training a language model over bassword strength estimator.	
Singapore University of Technology and Design, iTrust Lab	Singapore	
Research Assistant	August-December 2017	
• Developed a Convnet and LSTM based deep learning system to detect Crossf institutions. The time series analysis achieved attack detection precision of 0.9	ire DDoS network attack on 998 and recall of 1.0.	
NVIDIA Corporation, Performance Tools Team	Bangalore, India	
Architect	July 2015-July 2017	
• Designed a Deep Learning based performance stats classifier to determine performance of full graphics workloads during chip RTL simulation. Created neural network and adversarial autoencoder models.		
• Automated performance regression triaging using clustering. Formulated the performance regression triaging using clustering. Formulated the performance regression triaging using clustering.	problem, mined data, did ilures.	
• Built a C++ tool from scratch to stream temporal performance data from any workload running on GPUs. The tool improved GPU driver's performance by 15% for async compute workloads.		
• Developer of the primary performance tool in NVIDIA to analyze RTL and ga	ame performance on silicon.	
DOJECTS		

PROJECTS

Nove	Beatbox to drum track conversion app (Independent project)	June 2018-Present
•	Developed a minimum viable product for an idea to record percussive hits and recre	ate a drum track using
	Machine Learning. Designed the full stack architecture by interfacing Android with	a backend ML server.
•	Currently leading a team of 2 college students, on track to release it on the android p	play store in two months.
High	Performance Twitter Analytics Web Service (CMU Course Project)	March 2018-April 2018
•	Designed a cloud backend system using Java in a team of 3 to recommend hashtags,	find trending tweets and

- modify tweets over a distributed backend. The system passed all tasks during a live stress test.
- The project involved ETL over 1TB dataset, web servers and distributed databases. ٠

LEADERSHIP

- Chair, Masters Advisory Council, ECE, CMU (2018-2019). Managing networking events in ECE dept. •
- General Secretary of IEEE Students branch, IIT BHU (2012-2014). Led teams to organize technical events. ٠
- Secretary, Western Music Club, IIT BHU (2014-2015). Led club members to organize national music festivals. •