

# HAROUN HABEEB

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## EDUCATION

<b>University of Illinois at Urbana-Champaign</b>	2019
M.S. (with Thesis) in Computer Science	
<b>Indian Institute of Technology, Delhi</b>	2017
B. Tech in Computer Science and Engineering (Concentration in Artificial Intelligence)	GPA: 9.2/10

## PUBLICATIONS

<b><u>Coarse-to-Fine Lifted MAP Inference for Computer Vision</u></b> ( <a href="#">link</a> )	2017
<ul style="list-style-type: none"><li>▪ Detect and use symmetries in images to speed up <b>near state of art</b> computer vision algorithms</li><li>▪ Created and experimented with heuristics based on <b>potential functions and MAP values</b>.</li><li>▪ Achieve roughly <b>60% speedups</b> in MAP inference on MRF</li><li>▪ Published (<b>1<sup>st</sup> author</b>) in <b>IJCAI 2017</b> under supervision of Dr. Mausam and Dr. Parag Singla</li></ul>	

## INTERNSHIPS

<b><u>Summer Analyst, Deutsche Bank Centre, Mumbai</u></b>	Summer 2016
<ul style="list-style-type: none"><li>▪ Develop strategies to hedge exotic financial products based on asynchronous equities</li><li>▪ Trained SVMs, regression models, ANNs to price financial products using historical data.</li><li>▪ Developed backtesting tools for strategies using asynchronous correlation based instruments.</li></ul>	

## SCHOLASTIC ACHIEVEMENTS

▪ Received <b>Merit Scholarship</b> for Top 7% GPA in a class of 100 for 2 semesters	2016
▪ Received <b>Summer Undergraduate Research Award</b> for Point Location in 3D Subdivisions.	2015
▪ Secured <b>All India Rank 61</b> among 1,400,000 students in the Joint Entrance Exam, IIT-JEE	2013
▪ Received <b>Gold Medal</b> and Certificate of Merit (top 35) at INPhO, National Olympiad	2012

## TECHNICAL PROJECTS

<b><u>Goal Oriented Conversational Agent with Database in the Loop</u></b> ( <a href="#">link</a> , course project)	Spring 2017
<ul style="list-style-type: none"><li>▪ Make <b>memory networks</b> for goal oriented dialog systems with <b>templated output space</b>.</li></ul>	
<b><u>Parallelized Sudoku Solver</u></b> ( <a href="#">link</a> , course project)	Spring 2016
<ul style="list-style-type: none"><li>▪ Implemented <b>parallelized versions of brute force solver, A* search</b> using C, OpenMP.</li></ul>	
<b><u>Game Playing AI - Quoridor</u></b> ( <a href="#">link</a> , course project)	Spring 2015
<ul style="list-style-type: none"><li>▪ Implemented a Quoridor player in C++ which uses <b>MCTS and RL</b>.</li></ul>	
<b><u>3D Peer to Peer Multiplayer Game</u></b> ( <a href="#">link</a> , course project)	Spring 2015
<ul style="list-style-type: none"><li>▪ Developed 3D P2P racing-FPS game featuring AI and robust network using UDP.</li></ul>	

## EXTRA CURRICULAR ACTIVITIES

<b><u>Chief Editor, Board for Student Publications, IIT Delhi</u></b> (Received Best Chief Editor Award)	2015-16
<b><u>Vice Chair, ACES-ACM, Official Chapter of ACM at IIT-Delhi</u></b>	2015-16
<b><u>Debating</u></b> (National; Member of <b>Advisory Panel</b> for the Debating Society, IIT Delhi)	2013-17
<ul style="list-style-type: none"><li>▪ <b>Invited adjudicator</b>, N.V. Thadani Memorial. <b>Best Adjudicator</b>, Manzar. <b>Winner</b>, Clash of Titans. Received <b>Outstanding Contributions</b> to Debating Society, IIT Delhi Award.</li></ul>	

## TECHNICAL SKILLS

**Languages:** Python, C/C++, MATLAB, R, Java.