HAROUN HABEEB

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EDUCATION

Indian Institute of Technology, Delhi	2017
B. Tech in Computer Science and Engineering	GPA: 9.15/10

RESEARCH EXPERIENCE

Using Symmetries in PGMs to reduce computation in MAP inference — 2016

Under supervision of Dr. Mausam and Dr. Parag Singla, Dept. of CSE, IIT Delhi

- Created notions of symmetry to achieve speedups in MAP inference on MRF

INTERNSHIPS

Summer Analyst, Deutsche Bank Centre, Mumbai — Summer 2016

Project: Extraction of Correlation Risk premium from Asynchronous Markets

- Analysed behavior of correlation between asynchronous equities. Developed necessary tools.

SCHOLASTIC ACHIEVEMENTS

Received **Merit Scholarship** for Top 7% GPA in a class of 100 for 2 semesters	2016
Received **Summer Undergraduate Research Award**.	2015
Campus Runner-up for Philip's Blueprint business plan competition .	2014
Secured **All India Rank 61** among 1,400,000 students in the Joint Entrance Exam, IIT-JEE	2013
Received **Gold Medal** and Certificate of Merit (top 35) at INPhO, National Olympiad	2012
Received KVPY Fellowship and NTSE Scholarship from Govt. of India	2011,2009

TECHNICAL PROJECTS

Currency Note Identification (link, course project) — Fall 2016

- Implemented LDKL for classifying notes from photos and studied model compression.

Implementing Virtualization in JOS (link, course project) — Spring 2016

- Implemented hardware virtualization for 64 bit MIT-JOS written in C, tested using bochs.
- Virtualization using Intel VT-x through VMCS with Extended Page Table support.

Parallelized Sudoku Solver (link, course project) — Spring 2016

- Implemented parallelized versions of brute force solver, A* search using C, OpenMP.

Game Playing AI - Quoridor (link, course project) — Spring 2015

- Implemented a Quoridor player using MCTS and RL in C++.

3D Peer to Peer Multiplayer Game (link, course project) — Spring 2015

- Developed 3D P2P racing-FPS game featuring AI and robust network using UDP.

EXTRA CURRICULAR ACTIVITIES

Chief Editor, Board for Student Publications, IIT Delhi (Received Best Chief Editor Award)	2015-16
Vice Chair, ACES-ACM, Official Chapter of ACM at IIT-Delhi	2015-16
Debating (National, Member of **Advisory Panel** for the Debating Society, IIT Delhi.)	2013-present

- Invited adjudicator, N.V. Thadani Memorial debate. Best Adjudicator, Manzar.
- Winner, Clash of Titans debating tournament.

TECHNICAL SKILLS

Languages: Python, C/C++, MATLAB, R, Java, SML.   **Libraries:** Mallet, OpenGM, Theano, scikit-learn, boost