HAROUN HABEEB

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EDUCATION

Indian Institute of Technology, Delhi   2017

B. Tech in Computer Science and Engineering (Concentration in Artificial Intelligence)   GPA: 9.15/10

Ranked 1st and 3rd in the department in the last 2 semesters

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

▪ Analysed behavior of correlation between asynchronous equities using SVMs, regression.

▪ Developed backtesting tools for asynchronous correlation based instruments.

SCHOLASTIC ACHIEVEMENTS

▪ Received **Merit Scholarship** for Top 7% GPA in a class of 100 for 2 semesters   2016

▪ Received **Summer Undergraduate Research Award** for Point Location in 3D Subdivisions.   2015

▪ 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 in C++ which uses MCTS and RL.

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, CGAL, boost