# SHIULI DAS

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## EDUCATION

*The Ohio State University, Columbus*                                   Graduation: May 2017 (expected)
M.S. Computer Science and Engineering                        GPA: 3.74 (4.0 scale)


*Birla Institute of Technology and Sciences, Pilani*              Graduation: June 2015
B.E. Electronics and Instrumentation Engineering            GPA: 8.08 (10.0 scale)

## SOFTWARE SKILLS

C, C++, Python, Java, SQL, HTML, Qt, MATLAB, Tableau, Elastic Search

## WORK EXPERIENCE

**Graduate Teaching Assistant, The Ohio State University**, Columbus                    Aug 2016 – Dec 2016
- Delivered biweekly lectures, oversaw and graded programming labs and held office hours to help about 40 students with "Introduction to Programming in C++"


**Software Development Engineer Intern, Amazon**, Customer Service Technology, Seattle        Jun 2016 – Aug 2016
- Delivered the business partners with a visual tool which will be used to analyze the activity of customer service agents per contact (what they search for and what they click on), *Java*
- Used AWS products DynamoDB, Lambda and Kinesis to pipe the data from logs to a visualization tool on top of Elastic Search and Kibana


**Project Intern, Center for Artificial Intelligence and Robotics**, India                    Jan 2015 – Jun 2015
- Developed a consolidated utility to track multiple objects in multiple networked cameras in real-time
- Used image processing techniques; developed using *C++,* openCV and Qt
- Features included: handshaking between multiple camera views for consistent object labeling, auto-initialization of the TLD (tracking-learning-detection) tracker using GMM based motion

## PROJECTS

**Human Pose Estimation**                                                                                 Nov 2016
- Estimate human pose as standing/crouching/jumping/shooting in real time from live video feed to play Mario game
- Team of 3 (background subtraction + pose estimation + graphics), *MATLAB*
- Pose estimation: Used similitude moments of still silhouettes and motion history images to train SVM and Decision Tree classifiers for the task of pose estimation as crouching/jumping/shooting

**Recipe Visualizer**                                                                                         Apr 2016
- Parsed and visualized a cooking recipe in a radial tree graph form, *Python*, *D3*
- Team of 3: Parsing + Visualization
- Parsing: Divide the recipe statements into <Action, Ingredient, Cooking Agent>

**Music Signal Separation**                                                                                 Apr 2016
- Used RNN and soft-masking for music signal separation of monaural, synchronous violin and flute mixtures (0dB)
- Outputs signals predominant in one instrument, *MATLAB*

**Part-Of-Speech tagger**                                                                                     Mar 2016
- Implemented structured perceptron and Viterbi algorithm for part-of-speech tagging, *Python*
- Accuracy 89% when trained on twitter + penn tree bank + IRC chat data and tested on twitter data

**Interpreter for Modified LISP**                                                               Aug 2015 – Dec 2015
- Developed an interpreter to do parsing, check for syntactic and type errors and evaluation of S-expressions, *C++*