# SHIULI DAS

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## EDUCATION

*The Ohio State University, Columbus*  Graduation: May 2017 (expected)
M.S. Computer Science and Engineering  GPA: 3.87 (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 – Present
- 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

**Restaurant Simulation**  Nov 2016 - Present
- Multithreaded programming to simulate a restaurant with given number of diners, cooks, tables, orders and arrival times, Java

**Human Pose Estimation**  Nov 2016 - Present
- Estimate human pose as standing-crouching-jumping in real time, MATLAB

**Recipe Visualizer**  Apr 2016
- Parsed and visualized a cooking recipe in a radial tree graph form, Python, D3

**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

**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++