# Ashar Ali

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## Education

**Georgia Institute of Technology | Atlanta, GA**                         *August 2017 – December 2018*
Masters of Science in Electrical and Computer Engineering, **GPA** 3.76/4.00

**Indian Institute of Information Technology | Allahabad, India**                         *July 2012 – June 2016*
Bachelor of Technology in Electronics and Communications Engineering, **GPA** 8.65/10.00

## Skills

**Programming:** Python, C++, Matlab, SQL                **Technologies:** Tensorflow, PyTorch, Keras, ROS, Qt, Teradata
**Research Interests:** Deep Learning, 3D Computer Vision, Data Science, Robotics
**Relevant Coursework:** Statistical Machine Learning, Advanced Digital Signal Processing, Linear and Nonlinear Systems.

## Experience

**Georgia Institute of Technology | Atlanta, GA**
*Student Researcher / Intelligent Vision and Automation Laboratory*                         *August 2017 – December 2018*
*Semantic Depth Segmentation and 3D Human Pose Estimation*
● Modified *Segnet-32* to segment human body; matched SOTA results on *UBC Human Pose* and *Berkeley MHAD.* [**Github**]
● Performed Regressive estimation of 3D joints from the point clouds of segmented depth images.
● Presently developing a combined novel deep regression pipeline directly from point clouds by modifying PointNets.
*Graduate Teaching Assistant*                         *January 2018 – May 2018*
● *CS- 6476 Computer Vision* (Online)- Responsible for design of assignments, holding office hours for the Graduate course.

**ZS Associates| New Delhi, India**
*Business Technology Analyst*                         *August 2016 – May 2017*
*Data Engineering*
● ETL Development to warehouse sales data of a US Pharmaceutical client into organized data marts.
● Recognized with the 'Project Champions Award' for seamless contribution to the Commercial Analytics Hub.

**Ecole Polytechnique Fédérale de Lausanne| Lausanne, Switzerland**
*Bachelor's Theses Research*                         *March 2016 – May 2016*
*2D Human Pose Estimation*
● Implemented articulated structure based algorithms for estimation of human body postures from static images.
● Developed an interactive GUI to create a database of human joint locations in static images.

**Institute for Development and Research in Banking Technology| Hyderabad, India**
*Research Intern*                         *May 2015 – December 2015*
*Document Forgery Detection*
● Devised an algorithm to extract pantograph region present in Indian bank cheques based on texture patterns.
● Published *Detection and extraction of pantograph region from bank cheque images* in IEEE International Conference on Signal Processing and Integrated Networks (SPIN), Noida, U.P. India, Feb 2016.

## Projects

**MusiciGAN**                         *Spring 2018*
● Developing a deep learning algorithm to generate music conditioned on the sentiments extracted from lyrics.
**Hexapod**                         *Spring 2014*
● Successfully mimicked insect locomotion using Arduino MEGA 2560. [**Youtube**][**Github**]

## Experience

**Effervescence, IIIT Allahabad | Atlanta, GA**                         *January 2014 – December 2014*
*Overall Coordinator*
● Successfully coordinated the management, marketing and publicity of the annual cultural festival Effervescence 2014.