Ashar Ali

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Objective

Graduate Student in ECE specializing in Machine Learning Algorithms for images, text and audio data seeking Full Time Positions starting Summer 2019.

Education

Georgia Institute of Technology | Atlanta, GA   *August 2017 – May 2019*
Master of Science in Electrical and Computer Engineering, **GPA** 3.68/4.00

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, ROS, Keras, Pandas, OpenCV, PCL
Interest Areas: Deep Learning, Computer Vision, CNNs, GANs
Relevant Coursework: Statistical Machine Learning, Advanced Digital Signal Processing, Linear and Nonlinear Systems, Advanced Computer Vision, Linear Algebra, Data Structures and Algorithms.

Experience

Honda Research Institute USA, Inc| Mountain View, CA, USA
Research Intern   *August 2018 – December 2018*
Human Activity Recognition and Prediction
- Developing perception algorithms for pedestrian activity understanding in outdoor traffic scenes.

R-DEX Systems, Inc| Greater Atlanta Area, USA
Deep Learning Intern (Robotics)   *May 2018 – July 2018*
RGB-D Pose Estimation
- Developed a real-time platform for segmented detection and 3D pose estimation of industrial warehouse objects to facilitate autonomous navigation of tugger carts.

Georgia Institute of Technology | Atlanta, USA
Student Researcher / Intelligent Vision and Automation Laboratory   *August 2017 – December 2018*
Semantic Depth Segmentation and 3D Human Pose Estimation
- Performed Regressive estimation of 3D joints from the point clouds of depth images segmented by modifying *Segnet-32* architecture.
- Improved state of the art for 3D Pose Estimation by 10% on *UBC Human Pose* and *Berkeley MHAD.* [**Github**]
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*.*

Projects

MusiciGAN   *Spring 2018*
- Developed a *Conditional Generative-Adversarial Network* to generate music conditioned on the sentiments extracted from song lyrics.

Hexapod   *Spring 2014*
- Successfully mimicked insect locomotion using Arduino MEGA 2560. [**Youtube**][**Github**]