# Joseph K J

PhD Student, IIT Hyderabad

119, Hostel Block C, IIT Hyderabad, Telangana, India http://josephkj.in/ Phone: (+91) 9446 945 769 Email: cs17m18p100001@iith.ac.in Alt: josephkj20@gmail.com

## Research Interests

Computer Vision, Deep Learning, Machine Learning.

## Education

Indian Institute of Technology (IIT), Hyderabad	9.19 / 10
M. Tech + PhD Dual Degree in Computer Science and Engineering	Jan 2017 - present
Government Engineering College (RIT), Kottayam	80.43 %
B. Tech. in Computer Science and Engineering	May 2013
Loyola School, Trivandrum	92.93 %
Indian School Certificate (ISC), Class 12	March 2009
Loyola School, Trivandrum	93.00 %
Indian Certificate of Secondary Education (ICSE), Class 10	March 2007

# Research Experience

- Research Internship, Harada Ushiku Lab, University of Tokyo, Japan. June July 2018
  I explored areas related to multi-modal modeling, specifically on generating images that are semantically aligned with textual descriptions about it.
- Research Assistant, IIT Hyderabad, Jan 2017 June 2018.

  I worked on Deep Learning based solutions for visual detection and recognition from Unmanned Aerial Vehicles. The research was supported by Defence Research and Development Organisation (DRDO), Government of India.

# Work Experience

- Senior Software Engineer, Oracle Corporation, July 2016 Dec 2016.
  - As a part of PeopleSoft Cloud Manager Development Team, we build a product from scratch which allows PeopleSoft customers to deploy PeopleSoft Applications on a variety of Cloud and Bare-metal backends. Having been in the team since its inception, I have had the opportunity to contribute towards many part of the product including design, coding, implementation and UX. The product is live here.
- Software Engineer, Oracle Corporation, June 2013 July 2016.

  Stepping into a corporate career, right out of my undergrad studies was equally demanding and rewarding. I had the opportunity to work with a super-talented team on a variety of products vis. PeopleTools Push Notification Framework, PeopleTools Automated Configuration Management Framework and PeopleSoft Internet Architecture. A version tracking application that I had build is still used internally within PeopleSoft.

# Skills

- Languages: Python, Java, C, JavaScript
- Libraries and Tools: Numpy, Scipy, scikit-learn, OpenCV, Caffe, TensorFlow, PyTorch
- Miscellaneous: Shell Scripting, Dockers, Node.js, Hybrid Mobile App development, Git, ClearCase

# Publications

#### • 2019 •

K J. Joseph, A. Pal, S. Rajanala, V. Balasubramanian, C4Synth: Cross-Caption Cycle-Consistent Text-to-Image Synthesis IEEE Winter Conference on Applications of Computer Vision, WACV 2019, Hawaii, USA.

#### • 2018 •

- 2. K J. Joseph, V. Balasubramanian, MASON: A Model AgnoStic ObjectNess Framework, International Workshop On Autonomous Navigation in Unconstrained Environments, European Conference on Computer Vision, ECCV-W 2018, Munich, Germany.
- 3. Pengfei Zhu, Longyin Wen et al., VisDrone-DET2018: The Vision Meets Drone Object Detection in Image Challenge Results, European Conference on Computer Vision, Workshop Proceedings, ECCV-W 2018, Munich, Germany.
- K J. Joseph, A. Pal, V. Balasubramanian, Zero-Shot Image Generation by Distilling Concepts from Multiple Captions, Towards Learning with Limited Labels Workshop, International Conference on Machine Learning, ICML-W 2018, Stockholm, Sweden.

# Relevant Courses

- CS6510 Applied Machine Learning
- CS5370 Deep Learning for Vision
- CS5350 Bayesian Data Analysis
- CS6440 Special Topics in Machine Learning
- CS6010 Advanced Data Structures and Algorithms

## Service

- IEEE ICCV Subreviewer 2017
- IEEE WACV Subreviewer 2018, 2019
- IJCAI Subreviewer 2018

## Achievements

- $\bullet$  Awarded cash prize for being top 20% of participants at 'Summer School on Computer Vision: 2017', CVIT, IIIT Hyderabad.
- Runner up for 'Best Student Project Contest 2013' organized by the Computer Society of India, Trivandrum Chapter.
- Placed in top 500 teams globally, in the International IEEE Xtreme Programming Competition, 2010.

## Positions / Responsibilities

- Founding Secretary of IEEE Computer Society, RIT Chapter.
- Chief Editor of Click!, the half yearly publication of IEEE Computer Society, RIT Chapter.
- Coordinator of Parallel Programming event in Ensemble-12, a national level technical fest hosted by RIT.
- Facilitator at Fun@Work, an Oracle Volunteer initiative.

## References

- Dr. Vineeth N Balasubramanian, Associate Professor, Department of Computer Science & Engineering, IIT Hyderabad, Sangareddy, Telangana 502285, India. E-mail: vineethnb@iith.ac.in
- Dr. Srijith P K, Assistant Professor, Department of Computer Science & Engineering, IIT Hyderabad, Sangareddy, Telangana - 502285, India. E-mail: srijith@iith.ac.in