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

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

- 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

- $\bullet\,$ 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

From Academia

- 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

From Industry

- Mr. Biju Narayanan, Director, Software Development, PeopleSoft Enterprise Tools, Oracle Development Center, Technopark, Kerala 695581, India. E-mail: biju.narayanan@oracle.com
- Mr. Hari G I, Senior Principal Software Engineer, Software Development, PeopleSoft Enterprise Tools, Oracle Development Center, Technopark, Kerala 695581, India. E-mail: hari.g.i@oracle.com