

Joseph K J

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Research Interests

Computer Vision, Deep Learning, Machine Learning.

Education

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

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 •

1. 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*.
4. 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
- ICVGIP Program Committee/Reviewer: 2018

Achievements

- Awarded cash prize for being top 20% of participants at ‘Summer School on Computer Vision: 2017’, CVIT, IIT 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