Saurav Nanda

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Education

2014 – Now **Purdue University, USA**
Ph.D. Candidate (GPA: 3.92/4) Computer & Information Technology

2007 – 2009 **IIT, Kharagpur, India**
M.Tech., Information Technology

2003 – 2007 **SIT, Tumkur, India**
B.E., Computer Science

Publications

[1] TAG: Traffic-Aware Global Live Migration to Enhance User Experience of Cloud Applications. In *9th IEEE CloudCom* 2017. (**Accepted**)

[2] Predictive model for dynamically provisioning resources in multi-tier web applications. In *8th IEEE CloudCom* 2016.

[3] Predicting Network Attack Patterns in SDN using Machine Learning Approach. In *IEEE NFV-SDN* 2016.

[4] Forensics as a service: Three-tier architecture for cloud based forensic analysis. In *IEEE ISPDC* 2016.

[5] A quantitative approach towards detection of an optimal attack path in a wireless network using modified PSO technique. In *IEEE COMSNETS 2009*.

[6] An ACO based approach for detection of an optimal attack path in a dynamic environment. In *ACM ICDCN 2010*.

Software skills

Web and Tools: HTML5, CSS, JS, JQuery, XML, JSON, Node.js, Weka

Languages: C, C++, Objective C, PHP, Python, R, Matlab, Java

Hypervisors: ESXi, KVM, QEMU, Xen

Databases: MySQL, Oracle, MongoDB, Hive, Hbase, Cassandra

Cloud & Misc: Hadoop, MapReduce, Azure, Docker, AWS, OpenStack, git

Research Interest

Cloud Infrastructure, Dynamic Resource Provisioning, SDN, Machine Learning

Work experience

June 2017 – Aug 2017
Data Science Intern
Synopsys, USA
Working on a multi-resource grid scheduling algorithm that can pack jobs with hosts depending upon their individual resource requirement. Leveraged TensorFlow based RNN algorithm to pack the jobs in an optimal way.

Aug 2014 – May 2017
Graduate Research/Teaching Assistant
Purdue University, USA
Managing the HPC Lab, that includes a small data center, where I deploy and maintain ESXi and OpenStack based clusters to perform HPC and cloud-based research experiments. Also deployed 24 OpenStack based Hadoop clusters using Sahara package for Big-Data Analytics course (CNIT 581) in Fall 2015. I am also a Teaching Assistant for HPC courses (CNIT 460 & 560). I help students to set up small clusters with a NFS filesystem, run MPI, and implement the Torque scheduler.

June 2015 – Aug 2015
Summer Intern
University of Stavanger, Norway
Implemented a scheduling algorithm for live migration of virtual machines to improve the user experience of the applications hosted in cloud environment. Deployed an OpenStack Cloud infrastructure to host more than 15 Hadoop clusters.

Jan 2010 – July 2014
Chief Technology Officer (CTO)
Abhitech IT Solutions, India
Led the technical front of an emerging start-up company for more than four years, and handled clients across the globe. Delivered more than 10 big and 40 small projects with a team of 20 engineers. Expertise in Customized Web Application and Mobile Application (iOS, Android) Development.

Aug 2009 – Dec 2009
Assistant Professor
Lovely Professional University, India
Taught a course "Programming in Linux" to undergrad students (180 approx.). Helped them to understand and compile Linux kernel.

Awards and Achievements

Oct 2016 2nd Prize in Black IronHack 2016, Purdue University, RCODI

April 2016 2nd Prize in Green IronHack 2016, Purdue University, RCODI