

# 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] Predictive model for dynamically provisioning resources in multi-tier web applications. In *8th IEEE CloudCom 2016* (**Accepted**).
- [2] Predicting Network Attack Patterns in SDN using Machine Learning Approach. In *IEEE NFV-SDN 2016* (**Accepted**).
- [3] Forensics as a service: Three-tier architecture for cloud based forensic analysis. In *IEEE ISPDC 2016* (**Accepted**).
- [4] A quantitative approach towards detection of an optimal attack path in a wireless network using modified PSO technique. In *IEEE COMSNETS 2009*.
- [5] An ACO based approach for detection of an optimal attack path in a dynamic environment. In *ACM ICDCN 2010*.

## RESEARCH INTEREST

Cloud Infrastructure, HPC, Dynamic Resource Provisioning, VM Migration, SDN, Machine Learning, Predictive Models, and Analysis on Resource Utilization Data

## AWARDS AND ACHIEVEMENTS

- OCT 2016 2nd Prize in Black IronHack 2016, Purdue University, RCODEI (SafeTravel App)
- APRIL 2016 2nd Prize in Green IronHack 2016, Purdue University, RCODEI (FreshVeggie App)

## WORK EXPERIENCE

AUG 2014 – PRESENT

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 based Cloud infrastructure to host more than 15 Hadoop clusters for different research projects.

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.

## SOFTWARE SKILLS

WEB AND TOOLS	HTML5, CSS, JS, JQuery, XML, JSON, Adobe CS6 & InDesign, 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