DEEPAK VERMA

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WORK EXPERIENCE:

Graduate Teaching Assistant   **Sep 2016**
University of Texas at Arlington
- Assisting Prof. Trey Jones, in CSE 5382, Secure Programming class with course planning, grading and mentoring students.

Persistent Systems Limited, Pune, India   **Dec 2014 – June 2015**
Senior Software Engineer
- Worked in IBM SCEp Team and developed web applications in NodeJS using MongoDB and BackboneJS, to aid Admins in network security management and developed APIs in Python to access Openstack services.
- Developed Java interface between Slack and IBM Rational Team Concert.

Persistent Systems Limited, Pune, India   **Oct 2012 – Nov 2014**
Software Engineer
- Worked with IBM Cloud Support Team in Austin to research in IBM Smart Cloud Enterprise, Open Stack and Chef Recipes
- Worked on IBM Tivoli Products, System X Provisioning, System P Provisioning, SCE+ Agents
- Developed Python scripts for provisioning VMs using multi-threading to handle SSH connections.
- Mentored new team members and received "You Made a Difference" award for excellent performance.

TECHNICAL SKILLS:

Languages: Python, Java, Cpp, JavaScript, Shell Script
Technologies: AWS, Chef, Open Stack, NodeJS, IBM Bluemix, HTML, Bootstrap, JQuery
Tools: Eclipse, Tivoli Maximo, IBM SCEp, IBM TSAM, IBM Smartcloud Orchestrator, MongoDB, MySQL

EDUCATION:

University of Texas at Arlington   May 2017 (Expected)
M.S Thesis in Computer Science   **GPA: 3.8**
Relevant Courses: Advanced Topics in Computer Architecture, Parallel Processing, Artificial Intelligence, Design & Analysis of Algorithms, Computer Networks, Software Engineering

University of Pune, India   Aug 2008 - June 2012
B.E in Information Technology

RELEVANT PROJECTS

Web Application for various cloud platforms   **June 2016**
- Used Python Flask framework to create a web application which allowed users to manage text and image files. Customized and deployed this application on platforms like IBM Bluemix, AWS and Google App Engine. Tested it for scalability and checked performance analysis using Jmeter.

Kernel Fusion for Energy Efficient Computing on GPU   **May 2016**
- Kernel fusion technique was applied to reduce computation time and increase energy efficiency of a GPU. VectorAdd and MatrixMul from the CUDA 7.5 Samples were serially fused and analyzed using Nvidia Nsight Visual Profiler. Nearest Neighbor and Hotspot kernels from Rodinia benchmark were merged resulting in a 17% decrease in computation time.

Research Areas
- Applying my past experience in Compute Virtualization to research on Network Virtualization e.g. SDN, Openflow

ACTIVITIES
- Winner of the General Motors Sponsor challenge and for the best use of Amazon Web Service at TAMUHack 2016.
- Founding member of Cloud vertical of UTA's Maverick Computer Network Society and active member of the Linux User Group of UTA & Python User Group