

Shashikant Ilager

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RESEARCH INTERESTS

Cloud Computing, Big Data and Distributed Systems

ACADEMIC CREDENTIALS

- Doctor of Philosophy*, Computer Science Engineering
CLOUDS Lab, Department of CIS, University of Melbourne 2017 - 2021

- Master of Technology*, Computer Science (Specialization in High Performance Computing)
School of Computer and Information Sciences, University of Hyderabad (UOH) (**Gold medallist**) 2014- 2016

- Bachelor of Engineering*, Information Science and Engineering
VTU - Belagaum, Karnataka 2009- 2013

PUBLICATIONS

- Shashikant Ilager, P.S.V.S Sai Prasad. "Scalable MapReduce Based Fuzzy Min-Max Neural Network for pattern classification". In ACM 18th International Conference on Distributed Computing and Networking, January 2017.

PROJECTS

- **Extending Aneka Cloud PaaS APIs for GPUs**
(Master thesis, UOH, India) December 2015 - April 2016
Supervisor: Professor. Rajeev Wankar
Objective: To build the efficient APIs for Aneka PaaS Tool to utilize the power of GPU in Cloud computing. In this project we were mainly focused on integrating CUDA programming environment and CUDA APIs with Aneka Tool.
Technology: Aneka Cloud Application Platform, C# .NET 4.0 and CUDAfy library.

- **Automatic Protocol Blocker for Privacy Preserving Public Auditing in Cloud Computing**
Bachelor thesis, BEC - VTU, India June 2012 - May 2013
Supervisor: Dr. M. N. Birje
Objective: To preserve the privacy in auditing process in cloud environment with the use of Zero-Knowledge based protocol.
Technology: JSP and MySQL.

- **Scalable MapReduce based Fuzzy Min Max Neural Network Classifier**
UOH, India January 2016 - July 2016
A MapReduce based FMNN algorithm was designed and implemented in Twister's framework for massive scale large data sets.
Technology: Java and Twister's MapReduce framework.

- **A Simulator for the Gamy5 Product**

SE Intern, Pointed Squares, India

August 2016 - December 2016

A working model and simulator has been built for the purpose of load testing of the server and for validation of functional test cases for the in house Gamy5 product.

Technology: .NET C#, Task Parallel Library, MySql.

AWARDS ACHIEVE- MENTS

- Awarded Melbourne Research Scholarship for pursuing PhD at the University of Melbourne.
- Secured 1st place in the academic performance during the M.Tech course.
- Awarded SBH Gold Medal for the academic excellence in the M.Tech Computer Science.
- Awarded Mannapalli Subbaramaiah gold medal for the academic excellence in the overall Master's courses(CS/AI/IT) of SCIS, UOH.
- Scored 97.3 percentile in GATE 2014, a national level PG entrance examination.
- Awarded PG Scholarship from UGC - India to pursue master course for qualifying GATE.

EXPERIENCE and WORK

Software Engineering Intern

Pointed Squares, Hyderabad, India

August 2016 - December 2016

Built a simulator for the in house gaming product of the company. It was built for the stress test on server and also for validation of functional test cases.

System Administrator

SCIS, UOH, India

July 2015- June 2016

Member of the Linux system admin team for the school. Had experience in establishing & managing distributed IT infrastructure using NFS and NIS and managing web, mail servers for the school.

Hadoop System Administrator

GIAN Workshop, UOH India

August 2016

Member of the system admin team for two week workshop on Hadoop, created Hadoop cluster setup for participants and worked as tutor for hands on session on Hadoop assignments.

Teaching Assistant

UOH, India

July 2015 - December 2015

Responsible for assisting Professor and for assessment of assignments for the course on Parallel Computing.

Workshops and Talks

Invited for talks and hands-on sessions in many workshops on GPGPU programming and Cloud Computing in different Universities and Engineering colleges.

HARDWARE & SOFTWARE SKILLS

- Operating Systems
 - Proficient in Linux (openSUSE, Debian).
 - Familiar with Microsoft Windows family.
- Programming Languages

- Proficient in C, CUDA C, C#, Java
- Familiar with Hadoop and Twister's MapReduce framework, HTML and SQL, L^AT_EX.
- Tools and Systems
 - Apache Tomcat, Hadoop, Xen Hypervisor for virtualization, VirtualBox, Aneka Cloud application platform, Github, Visual Studio Development Environment.

**ADDITIONAL
QUALIFICA-
TIONS**

- Completed the course 'Heterogeneous Parallel Programming' offered by University of Illinois at Urbana-Champaign on Coursera.org.
 - Verification link-
<https://www.coursera.org/account/accomplishments/records/hAM2aQyXbGeDMfXV>
- Completed the 'Cloud Part1' and 'Part2' course under Cloud Computing specialization offered by University of Illinois at Urbana-Champaign on Coursera.org.
 - Verification link-
<https://www.coursera.org/account/accomplishments/records/NdmNfBGtFaFFZmyE>

**LANGUAGES
KNOWN**

English(Fluent), Hindi (Fluent), Kannada (Mother Tongue), Marathi (Fluent), Telugu (intermediate), German (Basic knowledge).