

Sulav Malla

Department of Computer Science and Engineering
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EDUCATION

Ph.D. in Computer Science and Engineering

University of South Florida

Advisor: Dr. Ken Christensen

Tampa
2015–2020 (*expected*)

M.S. in Computer Science

University of South Florida

Tampa
2015–2017

Bachelor's in Electronics & Communication Engineering

Institute of Engineering, Tribhuvan University

Nepal
2009–2013

RESEARCH

My research interest is in the area of power management of data centers. I am investigating safe oversubscription of power infrastructure and power overload prediction in data centers.

PUBLICATIONS

1. **S. Malla** and K. Christensen, "Choosing the Best Server for a Data Center: The Importance of Workload Weighting," accepted in *IEEE International Performance, Computing, and Communications Conference*, November 2018.
2. **S. Malla** and K. Christensen, "A Survey on Power Management Techniques for Oversubscription of Multi-Tenant Data Centers," to appear in *ACM Computing Surveys*, August 2018.
3. **S. Malla** and K. Christensen, "Reducing Power Use and Enabling Oversubscription in Multi-Tenant Data Centers Using Local Price," *Proceedings of the IEEE International Conference on Autonomic Computing*, pp. 161-167, July 2017.

TEACHING

Instructor

University of South Florida

Summer 18

Taught the course *Program Design* which introduces students to the C programming language

Teaching Assistant

University of South Florida

Fall 15&16, Spring 16, Summer 17

Courses: Computer Networks, Computer Architecture, and Human Computer Interface

EXPERIENCE

Research Assistant

University of South Florida

2016–Present

Assist Dr. Ken Christensen and Dr. Rafael Perez with Florida IT Pathways to Success (Flit-Path) project funded by National Science Foundation

ICT Volunteer

Kathmandu Metropolitan City Office, Nepal

July 2014–June 2015

Support the local government office in the field of Information and Communication Technology

Content Creator

www.programiz.com

November 2013–July 2015

Wrote the entire Python and R tutorial (140+ pages)

AWARDS AND LEADERSHIP

Da Vinci Scholarship

College of Engineering at University of South Florida

2018–2019

EXPO Chair

Tau Beta Pi, FL Gamma chapter

2018–2019

Spirit of Innovation Scholarship

College of Engineering at University of South Florida

2017–2018

President

Nepalese Student Association (NeSA) at University of South Florida

2017–2018

Merit Scholarship

Institute of Engineering at Tribhuvan University

2009–2013

NOTABLE PROJECTS

- **Data Mining Class Project:** “Deep Feature vs Traditional Feature for Bone Texture Characterization”
Compared deep features extracted from convolution neural network against traditional texture features for identifying osteoporosis cases from bone x-ray images.
Tools used: Weka, MatConvNet in MATLAB, Java
- **Advanced Databases Class Project:** “A Faster Parallel Algorithm for Analyzing Drug-Drug Interaction from MEDLINE Database”
Implemented a parallel multi-threaded random-sampling-based algorithm to automatically identify Drug-Drug Interaction by reading the substance field of MEDLINE records.
Tools used: C++, OpenMP, Python

TECHNICAL SKILLS

- **Programming Languages:** Proficient in C, C++, Java, R, Python, MATLAB, Octave, Processing, HTML, PHP, CSS, JavaScript, SQL, \LaTeX .
Also basic knowledge in Search Engine Optimizations.

- o **General Software Skills:** Well versed in MS Office softwares as well as in all three major OS platforms, Linux, Mac, and Windows.
- o **Other skills:** Good in probability and statistical modeling, can write clear and well organized reports with high quality graphs.

COURSES TAKEN

- o **Graduate:** Machine Learning, Data Mining, Data Visualization, Advanced Databases, Theory of Algorithms, Operating Systems, Computer Networks, Network Security, Computer Architecture.
- o **Undergraduate:** C, C++, Digital Signal Processing, Computer Graphics, Digital Logic, Discrete Mathematics, Probability and Statistics, Database Management System, Image Processing and Pattern Recognition, Speech Processing.

REFERENCES

Ken Christensen

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Department of Computer Science and Engineering
University of South Florida
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Rafael Perez

Professor
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