Hemanta Sapkota

Address: 1555 N. Sierra St. #APT 227, 89503, Reno, NV
Phone: (775) 378-3548
Website: *hmntspk.com*
E-mail: hsapkota@nevada.unr.edu

Education

PhD in Computer Science	University of Nevada – Reno, GPA: 3.9	**Aug. 2018 – Current**
BE in Software Engineering	Fudan University – Shanghai, China,	**Sept. 2012 – July 2016**
Chinese Language	Tongji University – Shanghai, China,	**Sept. 2011 – July 2012**

Publications

Sample Transfer Optimization with Adaptive Deep Neural Network.
Hemanta Sapkota, Md Arifuzzaman, and Engin Arslan
Innovating the Network for Data Intensive Science 2019 (in conjunction with SC'19)

Time Series Analysis for High Performance Sample Transfers.
Hemanta Sapkota, Bahadir Pehlivan, and Engin Arslan
Workshop on Systems and Network Telemetry and Analytics (in conjunction with ACM HPDC 2019)

Towards Securing Data Transfers Against Silent Data Corruption
Batyr Charyyev, Ahmed Alhussen, Hemanta Sapkota, Eric Pouyoul, Mehmet Gunes and Engin Arslan
19th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (IEEE/ACM CCGrid 2019)

Experience

Graduate Research Assistant, University of Nevada – Reno   **Aug. 2018 – Current**
- Working on various time series models, genetic algorithm and deep neural network to do research on transfer throughput optimization by tuning application layer parameter on real-time.
- Working on improvement of performance-oriented congestion control (PCC) algorithm for TCP.
- Collaborated with other team members to do experiments on silent data corruption.

Graduate Teaching Assistant, University of Nevada – Reno   **Aug. 2018 – June 2019**
- Taught in computer science labs on programming concepts using C++.

International Product Delivery and Management Engineer, ZTESoft (Kathmandu)   **Aug. 2017 – July 2018**
- Collaborated with clients to design new package and implemented those in the system.
- Developed program to monitor the health of the system and generated weekly report on that.
- Lead a group of Nepali engineers to manage the system.

Software Engineering Intern, Splunk (Shanghai)   **Aug. 2015 – July 2016**
- Designed, implemented and maintained internal paid time off website.
- Worked on data gathering and data analysis of Splunk mobile app to enhance the performance of the app.
- Worked on User Interface for data visualization of dashboard of main Splunk product using Backbone.js.

Skills

Python, Java, PHP, HTML5(HTML + JS + CSS3), MySQL, Splunk, Backbone.js, and other JavaScript frameworks.

Classes

- Multivariate Data Analysis
- Convex Optimization
- Evolutionary Computing
- Applied Regression
- Analysis of Algorithms

- Principle Components of Operating System
- High Performance System & Networking
- Data Intensive Computing
- Artificial Intelligence
- Data Mining and Data Intensive Computing

Language

- English
- Chinese (Mandarin)
- Hindi

- Nepali