

## Hemanta Sapkota

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### Education

<i>PhD. in Computer Science</i>	University of Nevada – Reno, GPA: 3.95	<b>Aug. 2018 – Current</b>
<i>BE in Software Engineering</i>	Fudan University – Shanghai, China,	<b>Sept. 2012 – July 2016</b>
<i>Chinese Language</i>	Tongji University – Shanghai, China,	<b>Sept. 2011 – July 2012</b>

### 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.

### Publications

**Towards Securing Data Transfers Against Silent Data Corruption**

19th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (IEEE/ACM CCGrid 2019) \*

**Time Series Analysis for High Performance Sample Transfers.**

Workshop on Systems and Network Telemetry and Analytics (in conjunction with ACM HPDC 2019)

**Sample Transfer Optimization with Adaptive Deep Neural Network.**

Workshop on Innovating the Network for Data Intensive Science (in conjunction with SC'19) (Submitted)

### Classes

- Multivariate Data Analysis
- Convex Optimization
- Evolutionary Computing
- Applied Regression
- Data Mining and Data Intensive Computing
- Principles of Operating Systems

### Language

- English
- Chinese
- Hindi
- Nepali
- Urdu