Hemanta Sapkota

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Work Experience

Software Engineering Intern   Aug 2015 – Jun 2016
Splunk Inc.   Shanghai, China
- Analyzed Splunk mobile application end-user activity log with millions of records every week using Splunk Processing Language (SPL) to build a dashboard to gain insight from the machine data such as daily active users, new user and old user retention pattern, common mobile device and OS
- Enhanced in-house Paid Time Off (PTO) system, with MongoDB, NodeJS, ExpressJS and added new features to support the functionality for intern's use
- Worked on User Interface for data visualization of dashboard of main Splunk product using BackboneJS

International Product Delivery and Management Engineer   Aug 2017 – July 2018
ZTESoft, Nepal   Kathmandu, Nepal
- Built various daily report generating algorithms using SPL by analysing thousands of new daily users and millions of daily phone call logs generated by a Telecom provider
- Suggested customers about new features which they might need in their CRM system and incorporated those new features in their system

Graduate Research Assistant   Aug 2018 - Aug 2021
University of Nevada, Reno   Reno, NV
- Improved performance of data streaming algorithms between various high performance computing (HPC) systems by up to 24%
- Collaborated on Robust Integrity Verification Algorithm (RIVA) to improve performance by dynamic parallelism algorithm to add new checksum and transfer thread which improved the speed by some order of magnitude

Education

University of Nevada, Reno	Aug 2021
M.S. in Computer Science and Engineering	Reno, NV
Fudan University	July 2016
B.E. - Software Engineering	Shanghai, China

Technical Skills

Programming Language
- **Natively Fluent:** Python, Java
- **Conversationally Fluent:** JavaScript, C++, SQL, Splunk Processing Language, HTML, CSS, PHP

Tools and Platforms
- **Experienced In:** OOP, Git, MySQL, Machine Learning, JSON, Scikit-Learn, Scipy, Pandas, Numpy
- **Familiar With:** NodeJS, ExpressJS, MongoDB, Backbone

Publications

- Charyyev, Batyr, et al. "Towards securing data transfers against silent data corruption." 2019 19th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGRID). IEEE, 2019.
- Sapkota, Hemanta, Md Arifuzzaman, and Engin Arslan. "Sample Transfer Optimization with Adaptive Deep Neural Network." 2019 IEEE/ACM Innovating the Network for Data-Intensive Science (INDIS). IEEE, 2019.
- Sapkota, Hemanta, Bahadir A. Pehlivan, and Engin Arslan. "Time series analysis for efficient sample transfers." Proceedings of the ACM Workshop on Systems and Network Telemetry and Analytics. 2019.