▶Simron Thapa

LSU Division of Computer Science and Engineering
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Skills

- ▶ Languages (proficient): Java, Grails, Android, C++/C, Python, JavaScript, OpenGL, WebGL, SQL, Hadoop
- ▶ Systems / Software: Windows, Linux, Android, Subversion (SVN), GIT, Bitbucket, VS .NET, IBM Bluemix (Watson)
- ▶ Documentation: MS Word, LaTeX

Awards and Certification

- ▶ Grant received for SC16 (Super-Computing), HPC Conference at Utah, Outstanding Student Award 2010-2013
- ▶ Microsoft Innovations, Windows Application Development Certification, and Coursera Machine Learning Certification

Education

PhD in Computer Science (Aug 2017 - Present) (GPA: 3.86/4)(With Full Graduate Assistantship)
LSU Division of Computer Science and Engineering

- ▶ Advisers: Dr. Bijaya Karki and Dr. Jinwei Ye
- ▶ Research: Scientific Data Visualization and Analysis, Image processing, Machine Learning in Big Data Technologies

MS in Computer Science (Aug 2017) (GPA: 3.86/4)(With Full Graduate Assistantship)
LSU Division of Computer Science and Engineering

- ▶ Adviser: Dr. Bijaya Karki
- ▶ Research: Scientific Data Visualization and Analysis, Machine Learning in Big Data Technologies

BE in Computer Engineering (October 2013) (GPA 3.99/4)(With Full Scholarship based on Merit list)
Tribhuvan University, Institute of Engineering, Nepal

- ▶ Adviser: Dr. Subarna Shakya, Mentor: Sudip Lama
- ▶ Project: LAN Messenger System (Java, MySQL), Android Application (Native Android Java, SQLite, JSON, Dropbox Chooser API, JavaScript) and Web Application development (Groovy on Grails), and Student Information System (C++)

Experience

Graduate Assistant, LSU Division of Computer Science and Engineering (August 2015 –Present)

Research: Research in Analysis and Visualization of Spatio-temporal moderately large data sets, drawing Trajectories and analyzing their properties. Research and Development of Visualization tools in Java, Groovy in grails, JQuery, WebGL, Three.JS, OpenGL, and GLSL (Published work: http://etd.lsu.edu/docs/available/etd-06202017-162439/)

Teaching: Conduct Labs, formulate class projects, and grade assignments and projects for Data Science and Analytics and Java programming, MATLAB, Numerical Methods, Operating Systems, and Digital Media Programming, and Artificial Intelligence. Supervise group projects, and grade paper presentations for Java Programing and Artificial Intelligence.

Web Master: Creating and Updating Profile of Faculties and Graduate Students, departmental news and events. Managing and maintaining the LSU Computer Science Web-application.

Core Intern (Graphics team), TedxLSU, LSU Division of Communication across the Curriculum (Sept 2017 –Present)

Strategic planning of project development and execution with multimedia design and team communication skills development, and interaction with industry mentors via one-on-one meetings, small groups, and communication-intensive workshops.

Software Engineer (Jan 2015 – July 2015)

Associate Software Engineer (Nov 2013 – Jan 2015), Trainee (Nov 2012- Oct 2013)

Deerwalk Inc., 430 Bedford St, Lexington, MA 02420 and Tamreshwore Mahadevsthan Sifal, KTM, Nepal

Responsible for the development of Back-End and Front-End application for the product named Plan Analytics with US healthcare data (http://www.deerwalk.com/product/plan-analytics). It is a big data project and we had to handle huge data in JSON format using Cascading and Elastic Search. (Java, Groovy in Grails, JavaScript). Used Highcharts, D3.js to make interactive charts and ASPOSE and Dynamic Jasper as a reporting API in the product.

Graduate School Senator at LSU Student Government (Jan 2017 – Present)

Vice-President and Web coordinator at Nepalese Student Association at LSU (Aug 2016 – 2017)

Academic/Professional and Membership Officer at WICS (Women in Computer Science) at LSU (Aug 2015 – Present)