

Simron Thapa

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EDUCATION

PhD in Computer Science

GPA: 3.9, **Aug 2017-Present**

MS in Computer Science

GPA: 3.89, **Aug 2015-Aug 2017**

Louisiana State University, Baton Rouge, Louisiana

Courses: Interactive Computer Graphics, Scientific Analysis and Visualization, Machine Learning, Artificial Intelligence, Data Mining, Programming Language Structures, Distributed Systems, Advanced Algorithms

BE in Computer Engineering

GPA: 4.0, **Dec 2013**

Tribhuvan University, Kathmandu, Nepal

Courses: Data Structures, Cloud Computing, Computer Graphics, Software Analysis and Design, Algorithms

EXPERIENCE

Course Instructor/ Teaching Assistant

Aug 2015- Present

Louisiana State University, Baton Rouge, LA

- Design syllabus and teach Programming Digital Media at Louisiana State University

Core Graphics Intern

Aug 2017- Mar 2018

TEDXLSU, Baton Rouge, LA

- Design and develop the advertisement media and animation videos and posters/flyers regarding TEDxLSU event.
- Usage of language and tools like Processing, Adobe Flash Professional CS5, Canva, and Photoshop.

Software Engineer

Jan 2015- Jul 2015

Deerwalk Inc., Lexington, MA and Kathmandu, Nepal

- Designed and developed modules in Java/Groovy that reads the data from Web-Services (RESTful Services). Front-End full-stack development of the application in Grails framework and User Interface implementation in Javascript/jQuery.
- Data Visualization done using Highcharts and D3.js. Developed reporting and search modules based on US healthcare data and implemented its exports using various APIs (Dynamic Jasper and Aspose Report).

Associate Software Engineer

Nov 2013- Jan 2015

Deerwalk Inc., Lexington, MA and Kathmandu, Nepal

- Analyzed existing codebase in Java/Groovy. Bug fixes. Ensured that the quality meets the requirements and the implementation was complete within the deadline.

SKILLS

Languages: Proficient: Java, C++, PL/SQL, SQL, Shell Scripting; Prior Experience: C, C#, R, Sed, Awk

Graphics libraries/Tools: OpenGL, WebGL, THREE.js, Processing (P5.js), Wings3D, Unity, Photoshop

Web: JSP, JSF, Servlets, Bootstrap, PHP, REST, JSON, XML, DOM, JavaScript, JQuery

SDLC/Documentation: Agile/Scrum, UML, LaTeX

Platforms/ Frameworks: Windows, UNIX/Linux, Spring, Groovy in Grails, Elastic-search, Hadoop/MapReduce

Others: Design Patterns, Unit Testing, MVC, Git, SVN, Maven, Jira

PROJECTS

Interactive Web-Based Visualization of Atomic Position-Time Series Data, LSU

Aug 2017

- Poster Presented at American Geophysical Union Fall Meeting, December 2017

Web-based Image Processing and Game Development

Oct 2015- July 2016

- Designed Bug-squish game (p5.js/tone.js/Arduino), Image processing in 3D object (WebGL and Wings3D)

Linux Shell Implementation

Dec 2016

- Implemented core Linux concepts like pipe and redirection and used various system calls by developing a C shell (independent project)

Facial Sentiment Analysis using IBM Bluemix

Jan 2016

- Used predictive algorithms to analyze 4 emotions (Happy, Sad, Surprised, and Angry) from images/live videos.

Plan Analytics, US Healthcare Data Analytics, Deerwalk Inc.

Nov 2013- Jul 2015

- Developed a US medical data analyzing application, with risk identification. It supported period-to-period comparison of data and did trend analysis.

HONOURS AND ACTIVITIES

- Awarded with Programmer of the Year, Deerwalk Inc. (>300 employees)
- Outstanding Student Award in Computer Engineering (2010 – 2013), Tribhuvan University (>500 students)
- Membership Officer, Women in Computer Science at LSU;
- Web Coordinator, Nepalese Student Association at LSU
- Graduate Senator, Student Government at LSU; Member, Society of Women Engineers (SWE)