

## SAURAB DULAL

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## EDUCATION

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### The University of Memphis, Memphis, TN

*PhD Student, Computer Science, August 2017(enrolled)*

**Selected Courseware:** Introduction to Algorithm(Fall '17), Software Engg( Spring '18)

**Research:** Name Data Networking, at Netlab, University of Memphis

### Institute of Engineering, Pulchowk Campus, TU, Nepal

*Bachelor's Degree In Computer Engineering, September 2016*

**Selected Courseware:** Theory of Computation, Data Structure and Algorithms, Operating System, Artificial Intelligence, Computer Organization and Architecture, Discrete Mathematics, Data Mining, Speech-Processing, Big Data Technologies

**Major Project:** Flash Flood Early Warning System

## SKILLS

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*Programming/ScriptingLanguages:* (Proficient)Python;(Familiar)C++, C, SQL, Javascript, Shell, R

*Frameworksand tools:* Hadoop, Django, Wordpress, Ruby on Rails, Git

*Databases:* Oracle, Teradata, MySql

## EXPERIENCE

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### Research Assistant

*Name Data Networking(NDN), NetLab, The University of Memphis, Memphis, TN, Aug 2017 - Current*

- Working on NDN Routing Protocol, 3D hyperbolic routing, and also on NDN code base.

### Senior Business Intelligent Developer

*Logic Information System (LIS), Development Center of LIS, US, Oct 2014 - July 2017*

- Developed Data Warehouse system for companies like as Oracle, Express, eXtra, Petco
- Developed research POC's such as Churn Analysis, Real Time Inventory, Retail Sentiment analysis

### Software Developer/ Intern

*International Centre for Integrated Mountain Development, Hatiban, Nepal, Jan 2014 - Oct 2015*

- Developed a flood monitoring DSS tool for flood risk analysis,based on hydro-logical estimate model

### Research Intern

*E & T Nepal Pvt. Ltd, Nepal, Jan 2013 - Nov 2013*

- Worked on research oriented project to develop high speed algorithms for CFD software, programmed in heterogeneous parallel processing environment using C++/CUDA

## PROJECTS

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### Name Data Netwroking(NDN) (C++, Networking)

*NetLab, The University of Memphis, (Fall' 2017-Current)*

- Currently working on 3D hyperbolic routing in data centric networking.

### Customer Churn Analysis ( R, Hadoop)

*Logic Information System, Nepal*

- Customer churn in retail was modeled using artificial neural network and logistic regression.

### Sentiment Analysis(Python, d3.js, Hadoop, NLTK)

*Logic Information System Nepal*

- Massive retail data were scrapped from Amazon, Walmart, Target, Dicks to construct an engine that processed NLTK parsed product reviews and then analyzes the sentiments (buyers, sellers) of the products