

# BIDHYA N SHARMA

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## CAREER SUMMARY

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Software Engineer with 3+ years of experience in developing wide range of applications ranging from server-side, client-side, database, games to mobile applications. Also, a proactive learner with great interest in Machine Learning and Big Data.

## WORK EXPERIENCE

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### The University of Alabama in Huntsville Research Software Developer

Aug 2016 - Dec 2017

- Developed a reverse search mechanism to fetch data from NASA CMR based on input geo-coordinates and search parameters.
- Implemented REST API to serve as alternate data source of CMR.
- Redesigned user interface of GHRC Hydro using ReactJS.
- Worked on website development of a project called Lightning.
- Python, JavaScript, jQuery, ReactJS, MongoDB, PostgreSQL, Elasticsearch, Docker.

### LogPoint (SIEM), Nepal Associate Software Engineer

Oct 2014 – Apr 2016

- Re-engineered device import system to increase its capacity of creating devices from 100's to 40K.
- Improved existing sync module used to sync multiple LogPoint nodes for resilience and performance.
- Developed a module to do cascading deletes and database cleanups.
- Optimized config reloader to avoid unnecessary reload and restart.
- Wrote python scripts to use sync and device import functionalities outside LogPoint web interface.
- Python, Flask, MongoDB.

## PROJECTS

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### N-Shapes (Mobile Game)

2017

Cross-platform car racing game developed in Lua and Corona-SDK.

### Traffic Sign Classification (Deep Learning)

2017

Built and trained a deep convolutional neural network for traffic sign classification. Achieved 94.6% test accuracy. Python, Tensorflow, Numpy, OpenCV, Jupyter Notebook, AWS EC2.

### Lane Line Detection (Image Processing)

2016

Used image processing techniques (Gaussian Smoothing, Canny Edge Detection, Hough Transform) to detect highway lane lines on video stream. Python, OpenCV, Numpy, Jupyter Notebook.

### Event Management System

2016

iOS app for creating, publishing, subscribing and rating events. Swift, Python, MongoDB, Firebase.

### Interest Rate Prediction of Banks

2014

Bachelor's degree thesis project. Web app to predict interest rates based on financial data and public sentiment. Python, SK-Learn, NLTK, d3.js, Django.

## SKILLS

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### Programming Languages

Proficient: Python, C++

Prior Experience: Lua, Swift, Java

### Web Technologies

Flask, Django, JavaScript, jQuery, ReactJS, JSON, REST, HTML, CSS

### Databases

MongoDB, PostgreSQL, Cassandra

### Machine Learning and Big Data

Tensorflow, Keras, Numpy, SK-Learn, Octave, HDFS, Map Reduce, Pig, Hive, Spark, Kafka, Storm

### Others

Windows, MacOSX, Linux, Git, Elasticsearch, Docker, AWS, Firebase, Tableau, ZeroMQ, Celery, Scrum

## EDUCATION

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### MS in Computer Science

The University of Alabama in Huntsville, Dec 2017

### B.E. (Computer Engineering)

Institute of Engineering, Tribhuvan University, Nepal, Aug 2014

## AWARDS & CERTIFICATIONS

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Winner – Integrity Ideathon

Jan 2014