

<https://bid007.github.io/>
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BIDHYA N. SHARMA

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EMPLOYMENT

Graduate Research Assistant **The University of Alabama in Huntsville** **Aug 2016 - Present**

- Developed a reverse search mechanism to fetch data from NASA CMR based on input geo-coordinates.
- Implemented a REST API & local database for frequently searched data to avoid unnecessary hits to CMR.
- Modified and redesigned the UI of GHRC Hydro data search tool.
- Contributed in the rapid prototyping of new Lightning webpage for GHRC.
- Javascript, jQuery, React JS, Python, MongoDB, CSS, HTML, Bootstrap

Associate Software Engineer **LogPoint (SIEM), Nepal** **Oct 2014 – Apr 2016**

- Increased capacity of creating devices using configuration files from 100's to 40k keeping the time constrained to a few minutes.
- Improved existing SYNC module for resilience and performance, used to sync multiple Logpoint nodes.
- Developed a module to do cascading deletes and database cleanup, used for troubleshooting.
- Improved config reloader to avoid unnecessary reload and restart of the system.
- Wrote python scripts to use Logpoint functionalities (sync & device import) outside web interface.
- Python, Flask, MongoDB.

PERSONAL/ACADEMIC PROJECTS

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- **N-Shapes** (2017). A game where user controls 2 cars and avoids collision with other shapes. [Lua](#), [Corona SDK](#).
 - **German Traffic Sign Classification** (2017). Built and trained a CNN to classify traffic signs. [Python](#), [TensorFlow](#).
 - **Finding Lane Lines on the Road** (2016). Detected highway lane lines on a video stream. [Python](#), [OpenCV](#).
 - **Charger Event Management System** (2016). iOS app for creating, publishing, subscribing and rating events. [Swift](#), [Python \(bottle-py\)](#), [MongoDB](#), [Firebase](#).
 - **Interest Rate Prediction of Banks** (2014). Web app to predict interest rates based on financial data and public sentiments. [Python](#), [Scikit-learn](#), [NLTK](#), [D3.js](#), [Django](#).
 - **Sky Fighter** (2011). A 3D shooting game where a moving plane shoots obstacles. [C++](#), [OpenGL](#), [Glut](#).

LANGUAGES AND TECHNOLOGIES

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- **Programming Languages:** Python (Proficient), C/C++ & Javascript (Intermediate), Swift & Lua (Prior Exp.)
 - **Databases:** MongoDB, MySQL, Sqlite
 - **Machine Learning:** TensorFlow, Keras, Octave
 - **Operating System:** Windows, Linux, MacOSX
 - **Version Control:** Git
 - **Other Skills:** Corona SDK, iOS, React, Python-flask, Django, REST, Firebase, jQuery, CSS, HTML

EDUCATION

Huntsville, AL **University of Alabama in Huntsville** **Aug 2016 - Present**

- M.S. in Computer Science. GPA 3.875 (up to now)

Pulchowk, Nepal **Institute of Engineering, Tribhuwan University** **Dec 2010 – Aug 2014**

- B.E. in Computer Engineering. GPA 3.8

ADDITIONAL EXPERIENCE AND AWARDS

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- **Winner - Integrity Ideathon** (Jan 2014): Designed and developed a puzzle based game in JS to define integrity actions visually.