Anish Shrestha

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EDUCATION

Institute of Engineering, Tribhuvan University — *Bachelors in Computer Engineering*

2012 - 2016

Aggregate Grade: 70.56% (First Division)

SOS Hermann Gmeiner Higher Secondary School, HSEB — (*+2 Science)*

2010 - 2012

Aggregate Grade: 79.20% (First Division with Distinction)

Other Courses

- **Machine Learning**
  Instructor: Andrew Ng
  Stanford University, Coursera
- **Computational Methods for Data Analysis**
  Instructor: Nathan Kutz
  University of Washington, Coursera
- **Training on Geographical Information System and Remote Sensing**
  Organizer: Resources Himalaya Foundation

EXPERIENCE

Unified Private Limited, USA — Remote *Backend/Frontend Developer*

5+ months since October, 2018 and ongoing

Unified is an organization primarily focused on marketing, but with an aim to provide widely varying software solutions to specially young companies from a single platform. My responsibilities have been developing, analyzing, maintaining and implementing the system logic, mentoring junior developers about the stack and also planning and executing the sprints.

Infiniahub Private Limited, Kathmandu — *Backend Developer*

2+ years since OCTOBER, 2016

Infiniahub is a startup created to fulfil the requirements of various kinds of businesses in taking the physical system to the internet. My responsibilities had been creating and deploying backend system logic, mentoring junior developers to learn the stack and reporting weekly progress to the CEO. My brief achievements are:

- Lead the development of a Business-To-Customer e-commerce web application called "infiniastores.com" along with an in-built Point-of-Sale system relying on a Python based web framework. Based on the sales, various infographics on sold items and profit are generated for analysis. We employed Docker so that load distribution can be achieved. We came to experience various scenarios regarding normalization and optimization of data during storage and transfer.

- Developed a Business-To-Business real-time connectivity automation tool called "Infiniabiz". Along with

Docker, we exploited message caching, queuing and brokering tool like Redis to handle timeliness of incoming requests.

- Developed an Enterprise Resource Planning system.

PROJECTS

Automated Facial Expression Analysis and Recognition — *Major Project*

Using publicly available datasets we applied Principal Component Analysis and Local Binary Patterns, separately, as our feature extractors. For analysis and classification of facial expressions, Support Vector Machines and Convolutional Neural Network were mobilized. The range of expressions was limited to seven kinds: happy, sad, surprise, disgust, fear, disgust and neutral. We concluded with a comparative study of suitability between the used methodologies for this specific problem.

EPL Predictor — *Minor Project*

In this project, past game results of English Premier League(EPL) were used as our training data and implemented supervised machine learning methods(Back Propagation Neural Network, k-Nearest Neighbour, Naive Bayes Classifier) to predict the results of the unpredicted games of the same league. Our secondary goal was also to perform comparative study between the accuracy of the used methods.

SKILLS

Programming Language
Python, C, C++

Web Technology
Django, Django REST Framework, Javascript, jQuery, Docker, GraphQL, React.js

Database
PostgreSQL, SQLite, MySQL

Data Science
Matlab, Octave, Numpy, Pandas, ArcGIS

CERTIFICATES

Volunteering and Participation, LOCUS (National Technological Festival) (2012-2016)

Stipend based on Merit(BE), Institue of Engineering (2012-2016)

Training on Geographical Information System and Remote Sensing, Resource Himalaya Foundation (August, 2016)

MEMBERSHIP / AFFILIATION

Nepal Engineering Council

LANGUAGES

Nepali, English, Hindi, Newari(Oral Only)

Updated: 17th April, 2019