Oyesh Mann Singh

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Education

University of Maryland - Baltimore County, MD — Aug 2017 - May 2019 (expected)
Masters in Computer Science — GPA-3.8/4

Kathmandu Engineering College, Nepal — Nov 2011
Bachelors of Engineering in Electronics and Communication — GPA-70.11/100

Professional Experience

Data Analytics Intern
Relus Cloud Technologies, Atlanta, GA — **Jun 2018 - Aug 2018**

- Built end-to-end data ingestion pipeline scaling to quarter million records/seconds to enhance ETL(Extract, Transform and Load) process for further data analysis and visualization

Teaching Assistant
Department of Computer Science, UMBC, MD — **Aug 2017 - May 2018**

- Assisting 50 undergraduate students in better understanding their assignments/projects and debugging their codes for Data Structure and Computer Architecture course

Software Developer
Department of Chemical Engineering, Lamar University, TX — **Mar 2015 - May 2017**

- Enhanced Chemical Analyzer Barometer(CAB) software by using auto-thresholding technique of Otsu's method and altering kernel size of Canny edge detector using OpenCV/Java
- Improved the usability of Excel Merge Utility software by adding more GUI features and making it easier for PhD students to analyze the data after merging the required parameters from CSV files

Associate Software Developer
Software Paradigm Infotech, Kathmandu, Nepal — **Jan 2013 - Dec 2014**

- Analyzed the business logic by gathering the requirements from on-site client in order to modify the existing code in Credit Management System (CMS) and Reservation & Delivery System (RDS) projects
- Successfully completed CMS and RDS projects using CMMI level 5 (Capability Maturity Model Integration) model with strong appreciations from on-site and offshore managers

Projects

- **Data Analysis on 311 Dataset:** https://github.com/oya163/R-project — **May 2018**
  Led a team of four to analyze and build a predictive regression model to estimate the time taken for a neighborhood in Baltimore based on 311 dataset of 3 million records
- **eatIn:** https://github.com/oya163/eatIn — **Oct 2017**
  Created a web application with a team of three for kitchen hailing service as similar to car hailing service of Uber in UMBC Hackathon
- **Unsupervised Learning using JigsawPuzzle as pretext task:** — **Sep 2017**
  https://github.com/oya163/oyaTorch/tree/master/JigsawPuzzle
  Developed unsupervised learning algorithm for ImageNet classification task based on jigsawpuzzle as a pretext task with accuracy 5% less than that of supervised
- **Brain Tumor Segmentation Using Deep Learning Technique:** — **Mar 2016**
  http://oyeshsingh.blogspot.com/
  Successfully completed my thesis on segmentation and extraction of tumor patches by training the convolutional neural network using MatConvNet toolbox

Technical Skills

- **Programming Languages** - C++, Python, R, MATLAB, SQL
- **Others** - Git, PyTorch, PySpark, Pandas, AWS services, LaTeX