

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

DNA Intern

Relus Cloud Technologies, Atlanta GA Jun 2018 - Aug 2018

- Built end-to-end data ingestion pipeline from Kinesis Data Streams to DynamoDB to support customer's 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 undergraduate students in better understanding their assignments/projects and debugging their codes for CMSC 341 Data Structure and CMSC 441 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** May 2018
<https://github.com/oya163/R-project>
Led a team of four to analyze and build a predictive regression model to estimate the time taken for a neighborhoods in Baltimore based on 311 Customer Service Request dataset
- **eatIn** <https://github.com/oya163/eatIn> Oct 2017
Participated in UMBC hackathon to create a web application for kitchen hailing service as similar to car hailing service of Uber.
- **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.
- **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.
- **HackerRank:-**<https://github.com/oya163/HackerRank> Jun 2016
Worked on the data structure and algorithm problems of hackerrank.com in C++.

Technical Skills

- **Programming Languages** - C++, Python, R, MATLAB, SQL
- **Others** - Git, PyTorch, PySpark, Pandas, S3, Kinesis, DynamoDB, Athena, Lambda, Glue, L^AT_EX