

# Oyesh Mann Singh

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## Education

University of Maryland Baltimore County, MD 08/2017-12/2020  
Masters of Science in Computer Science GPA-3.756

Kathmandu Engineering College, Nepal 05/2007-12/2011  
Bachelors of Science in Computer Science GPA-70.11

## Technical Skills

- **Programming Languages** - Python, R, Java, C++, C#/.NET, Javascript, Bash
- **Database** - MySQL, PostgreSQL, NoSQL (MongoDB)
- **Framework** - Flask, Django, ReactJS
- **Cloud** - Amazon Web Services (AWS)
- **Others** - Github, Rest API, Docker, Kubernetes, CI/CD pipeline (Github Actions, Travis CI), PyTorch, Redis, Apache Airflow

## Professional Experience

**Research Intern, NAAMII, Kathmandu, Nepal** 06/2020-08/2020

- Developed a non-parametric Bayesian Model for unsupervised morphological segmentation task with 74.8% F1-score. Deployed this model as a web app on AWS EB with CI/CD pipeline (Github Actions)

**Research Intern, Johns Hopkins University, Baltimore, MD** 06/2019-08/2019

- Automated the dataset annotating task using Wikidata relationship and increased entity-tagged dataset volume by approximately 500% by scraping the Wikipedia articles in English, Chinese and Russian languages
- Improved the NER CoNLL F1-score by almost 4% for Chinese by fine-tuning BERT model on this larger dataset, compared to the one without fine-tuned

**Data Intern, Relus Cloud Technologies, Atlanta, GA** 06/2018-08/2018

- Successfully completed two ETL projects on AWS platform to extract millions of real-time records from wearable devices, transform using Lambda (Python/NodeJS) scripts and loading into DynamoDB

**Software Developer, Lamar University, Beaumont, TX** 03/2015-05/2017

- Increased the segmentation accuracy by 70% for water droplet edge detection software using core Java/OpenCV

**Associate Software Developer, Software Paradigm Infotech, Kathmandu, Nepal** 01/2013-12/2014

- Completed projects in Credit Management & Reservation/Delivery domain in C#/.NET and COBOL

## Projects & Publications

- **Crown Clothing Store** 12/2020  
Currently building a clothing store e-commerce web application based on ReactJS, Firebase Authentication
- **Aspect Based Abusive Sentiment Analysis** 05/2020  
Open-sourced this first sentiment dataset in Nepali containing 5135 YouTube comments. Achieved 57.98% F1-score on Aspect Term Extraction and 81.60% F1-score on Sentiment Classification task using BERT model
- **Nepali Named Entity Recognition** 05/2019  
Completed first Nepali NER project with 86.9% F1-score using BiLSTM + Grapheme-level CNN architecture. Deployed this model on [Heroku](#) using Python/Flask framework

## Certifications

- **M121: MongoDB Aggregation Framework** 09/2020
- **AWS Certified Developer Associate** (in progress) 11/2020
- **Dockers and Kubernetes** 12/2020
- **ReactJS, Redux, Hooks, GraphQL** (in progress) 12/2020