Oyesh Mann Singh

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Professional Experience

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
- Increased the accuracy of calculation of angles, volume, height, width of water droplet by adding upper margin cut-off line using graphical properties of 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
- Coordinated with team members, team leads, on-site and offshore managers to complete a given task using Software Development Life Cycle process, which created a smooth and systematic flow of 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

- **Brain Tumor Segmentation Using Deep Learning Technique**:-   Mar 2017
  http://oyeshsingh.blogspot.com/
  Completed my thesis on extraction and segmentation of tumor patches by training a convolutional neural network using MatConvNet toolbox.
- **DataStructure_CPP**:-https://github.com/oya163/DataStructure_Cpp   Dec 2016
  Independently learned all the fundamentals of data structure and algorithms from the book "Programming Abstractions in C++."
- **NoticeBoard**:-https://github.com/oya163/NoticeBoard   Jul 2016
  Self-initiated C++/Qt/SQL/Linux project that minimizes communication gap between co-workers in an hourly-wage environment.
- **Storm**:-https://github.com/oya163/storm   Feb 2016
  Led three members to develop a P2P file sharing project using libtorrent/boost libraries in C++/Qt/Linux for Advance Operating System coursework.
- **SplitBill**:-https://github.com/oya163/SplitBill   Jun 2015
  Developed a web application using C#/MVC which calculates and generates a monthly report of expenses of rent, groceries and utilities among roommates.
- **ShapeCount**:-   Mar 2015
  Led a two-member C++/OpenCV project that counts various geometrical shapes via webcam, for Artificial Intelligence coursework.

Education

Lamar University, Beaumont, TX	May 2017
Masters of Science in Computer Science	GPA-3.91/4

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

Technical Skills

- **Programming Languages** - C++, PyTorch, C#, Java, SQL, MATLAB
- **Others** - Qt, Git, OpenCV, Arduino, libtorrent, LaTeX