# MAYURESH OAK

## SOFTWARE DEVELOPER

mayuresh.oak@gmail.com
+1-585-309-5569
144, Crittenden Way Apartments, Apartment- 3, Rochester, NY-14623, United States
mayuoak
mayuoak

Looking for a software developer job in a company where I could learn under working professionals to gain knowledge and improve my own skills while giving some input to the company

## Skills

### AREAS OF FOCUS

Software Development
Web Development
Computer Vision
Machine Learning

### PROGRAMMING LANGUAGES/TOOLS

C#
C/C++
Java
Python
VB.NET
LUA
MATLAB

### WEB DEVELOPMENT

HTML/CSS
PHP
XML
ASP.NET
JavaScript
WordPress
JSON
REST
SOAP
Django

### TECHNOLOGIES

Visual Studio
Eclipse
MATLAB
Microsoft Visio
Confluence
Jira
Torch7
openCV
Theano
SQl/MySQL
MSACCESS

## Education

Rochester Institute of Technology
Master's of Science Computer Engineering 2016

University of Mumbai
Bachelors of science Electronics and Telecommunication 2012

## Employment

Ashida Electronics
Software Developer
Jan 2013 to Jul 2014

Designed and developed Multi-threaded application for communicating with Smart Relays using Standard protocols like IEC-60870-5-103, IEC- 60870-5-104 and IEC-61850.
Developed rich interactive graphics and Data Visualizations of large structured Data in user friendly format.
Fine-tuned and improved query performance using profiling tools and T-SQL statements.
Programming languages used in application were: C#, C++, VB, VB.NET, SQL

AIR-INDIA
Trainee Engineer
Mumbai
Jul 2008 to Aug 2008

Assisted Test Engineer in AIR-INDIA team.
Operated wide range of tools and specialty equipment to complete maintenance and repairs.
Performed preventive maintenance on Aircraft and Aircraft systems.

## Projects

### Artificial tweet generation using deep learning

The goal of the project was to generate language, statistically similar to human language using data-driven models like recurrent Neural nets and Long-Short Term Memory (LSTM) models.
The language generation problem was approched from anonmization perspective such that, the language generation can be used for anonymization of data by artificially producing similar data as the training data.
Languages: Python, Lua, C++

### Classification of tweets using LSTM models

Trained deep learning LSTM model to classify tweets into different categories according to linguistic statistical properties. Compared classification results with existing SVM model.
Languages: Python, Lua

### Sentiment Analysis of tweets

The goal of the project was to do sentiment analysis of tweets into positive, negative and neutral state.
Languages: Python

### Diabetic Retinopathy detection

The purpose of project was to identify signs of diabetic retinopathy in the eye images using Convolutional Neural Networks.
Languages: MATLAB

### JPEG Image Compression using CUDA

The purpose of project was to perform JPEG compression using CPU as well as CUDA using Discrete Cosine Transform. Secondary objective was to learn CUDA programming and increase the compression speed using CUDA.
Languages: C++

### Parallel Implementation of a Ray Tracer

Developed a parallel implementation of Ray Tracing algorithm to render different pixels in an image independently.
Languages: C++

### TCP/IP chat Client/Server

Developed a highly scalable Client/Server based chat application in C#/C++ to replace existing peer-to-peer communication system.
Languages: C#, Python, C++

### Remote Application Tracker

Developed C# based Remote Application Tracker to track applications in Remote Desktops in Company's internal Local Area Network for audit purposes.
Languages: C#

### Home Automation System (A.H.A.S.)

A system using micro controller Atmega 32 was designed to control the appliances of the house autonomously.
Priority for different users and manual overwrite flexibility

## Awards

Computer Engineering · Graduate Merit Scholarship

## Publication

Mayuresh Oak, Anil K. Behera, Titus Thomas, R. Ptucha, C. Alm, Emily Prud'hommeaux, C. Homan submitted "Generating Clinically Relevant Texts: A Case Study on Life-changing Events" to Computational Linguistics and Clinical Psychology Workshop, 2016