Harshal Vijay, Neelkamal

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EDUCATION:

• Northeastern University | Boston, MA

Candidate for M.S. in Computer Systems Engineering (**GPA**: 4.0*)

Dec 2018

Relevant coursework: Enterprise software design, Data Structures & Algorithms and Concepts of Object Oriented Programming

• Mumbai University | Mumbai, Maharashtra, India

B.E in Electronics Engineering

May 2015

Relevant coursework: OOP, Embedded systems, Image processing using MATLAB.

SKILLS:

Languages: Java, Objective-C, Swift, C, C++, C#, SQL

Web Technologies: JavaScript, HTML5, CSS3, Bootstrap, JSP, JQuery, AJAX, Servlets, .Net

Standards & Frameworks: Spring MVC, Hibernate, Maven, Spring Security, Servlets, J2EE, DOM, JDBC, JSON,

XML, HTTP Client

Databases: MYSQL, SQLite

Servers: Apache tomcat, MAMP server

IDEs: NetBeans, MS Visual Studio, X-Code, Eclipse, MATLAB, Arduino UNO, Code Blocks

EXPERIENCE:

• Tata Consultancy Services | Mumbai, India (ranked 40 in most innovative companies by Forbes)

Associate Systems Engineer

Nov 2015 - Dec 2016

- o Worked in DESS workforce on agile delivered projects where I developed iOS applications for Globally recognised marathons like NYC full run and BOA Chicago marathon using both Objective C and Swift
- Underwent a training program in ASP.Net where I developed a multi user railway ticketing system in ASP.NET framework using C#
- o Application for NYC full 2016 had over 300k downloads with over 200k downloads in a single day
- NCC Telecoms Pvt Ltd | Mumbai, India (Focused on automation base electronic products)

Student Intern Mar 2013 – May 2013

- Worked on software to automate electronic appliances in residential and commercial premises
- Worked on android application to provide integrated controls of electronic appliances
- O Worked on 8051 microcontroller for IOT applications

ACADEMIC PROJECTS:

• Image Recognition | (OpenCV, Java Swing)

July 2017 – Aug 2017

- O Java application with supervised and un-supervised learning using KNN and K-means techniques.
- o Implemented self-written classifiers using KDTree and Graph data structures.
- Tweaked processing methods used in Eigen Faces technique to extract features from image.
- Elastic Computing Stimulator | (Java Swings)

May 2017 – June 2017

- o Stimulated scalable architecture to process incoming server requests as in elastic computing.
- o Conducted empirical analysis to examine request processing efficiency of scalable architecture.
- Online Tutorial portal | (Spring MVC, Spring security, Hibernate, Maven)

Mar 2017 – Apr 2017

- o Created an multi role, multi user online tutorial portal for users to post and refer study materials online.
- o Application was constructed on Spring MVC framework and was secured using Spring Security.
- O Database operations were handled using Hibernate with maven integration to resolve dependencies.
- Crystal generator using Automata Rules | (Java Swings)

Mar 2017 – Apr 2017

- o Multithreaded Swing Application to Study crystal growth for variable automata generation rules.
- o Application supports stimulation of crystal generation in rectangular and Hexagonal grids.
- Jobs portal with weather forecast | (Spring MVC, Hibernate, Maven, http Client) Feb 2017 Mar 2017
 - o Created an online jobs portal for users to post and view online job openings.
 - o Integrated Google feeds and maps to get news on employers and direction to their office location.
 - o Integrated "Open weather map's" API to get global weather data using http Client.
- Resistor Measurer and Segregator | (OpenCV, Robotics, Arduino UNO)

July 2014 - May 2015

- o Machine for value based segregation of resistors without human intervention.
- o Used vertical robotic arm for physical manoeuvres and OpenCV libraries for image processing.
- Used Multidimensional vector based classification of features for colour detection.