# Avikaran Singh Bedi

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**Objective:** Seeking a challenging opportunity in the field of Computer Science.

## Education

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| **Master of Science (Computer Science)** | **The University of Texas at Dallas** | CGPA 3.85/4 | **(Present)** |
| **Bachelor of Engineering (Electronics & Communication)** | **Manipal Institute of Technology at Manipal** | CGPA 7.92/10 | **(May 2012)** |

## Computer Skills

**Programming Languages:** C++, JAVA, R, PL/SQL
**Web Technologies:** HTML, CSS, JavaScript, JQuery
**Operating Systems:** Windows, Linux.
**Database:** SQL
**Tools/Software Platforms:** Android Studio, Selenium, Eclipse, Putty, SecureCRT, Turbo C
**Certifications**: CCNA – Routing and Switching, CCNP – Routing, ETCP - IP

## Related Projects

**Android Game: The Flying Mario** **(Sep 2016)**
- Developed a Mario android game based on the game "Flappy Bird" using libGDX.
- **Skills Used**: JAVA programming in **Android Studio**, Working with Cross Platform Game Development Library **(libGDX).**

**Sentimental Analysis Using Machine Learning Algorithm** **(Jul 2016)**
- Our main goal in this project was to analyze the sentiments of a group of people using a set of tweets.
- Implemented the K-Means machine learning algorithm in JAVA to cluster and classify similar tweets.
- **Skills Used**: **JAVA** Programming, **Algorithms** & Logic, Linked List **Data Structures**.

**Virtual Soccer Manager** **(Feb 2008)**
- Virtual Soccer Manager is a computer game that simulates a real Soccer League, **The English Premiere League.** Our main goal in this project was to allow the game player to manage a set of 11 member team and announce the result of matches played based on the team selection skills of the player.
- The project was programmed in C++ using file handling.
- **Skills Used**: **C++** Programming fundamentals, Algorithms & Logic, File Handling

**Implementation of Advance Data Structure and Algorithm (Coursework)** **(Jan 2016)**
- Built various projects based on advanced data structure like Linked List, Stacks, Queues, Trees, Graphs and Hash maps.

**Secure VoIP Application** **(May 2016)**
- Built a VoIP application and implemented some security features including Prevention of Brute force attack and Geographical Location Blocking.

**Online Education System Design** **(Apr 2016)**
- The goal of this project is to build a real-time E-learning web portal.
- It supports teaching and learning using a computer web technology and bridges the gap between a teacher and a student in different ways.
- **Skills Used**: **SQL** Queries and other Database Concepts.

## Experience

**Graduate Intern– T-Mobile, Texas, U.S** **(Jun 2016 – Aug 2016)**
- Designed and developed a JAVA application for automating the data analysis process in day to day activities at T-Mobile.
- Worked on SQL/PL-SQL queries to manipulate and automate the daily report generation process for internal use.

**Engineer– Ericsson India Global Services, Bangalore, India** **(Nov 2012 – July 2015)**
- Worked as an Engineer to maintain, configure and upgrade the **SPRINT, US** data and voice network. I was responsible for installation, configuration, deployment, troubleshooting, monitoring and maintenance of devices of their Live Network.
- Worked on multi-vendor routers and switches like Cisco, Avaya, Ericsson, and Huawei

**Design Intern– Silvan Innovation Laboratories, Bangalore, India** **(Jan 2012 – May 2012)**
- Worked on a couple of mini projects within the company. The projects included designing of electronic circuits which were implemented in a large home automation environment.

## Relevant Coursework

- Machine Learning
- Design and Analysis of Algorithms
- Network Security
- Software Defined Networking (Future Semester)
- Database Design
- Web Programming Languages
- Big Data

**Availability: Spring 2017**

**Work Authorization: F1**