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| **Michael Richards**  720-439-0255 - [michael.richards@ucdenver.edu](mailto:michael.richards@ucdenver.edu)   |  | | --- | | Profile | |

A highly-motivated, team player with analytical and problem solving skills, who is seeking employment as a software programmer.

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| Education |

**University of Colorado at Denver –** Denver, Colorado - BS Degree in Computer Science and Engineering - May 2016

**Community College of Denver –** Denver, Colorado - Associates Degree in Computer Science - May 2009

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| Summary of Qualifications |

* **Web Development Languages –** Currently learning HTML, CSS3, and Javascript using Code Academy – online learning website.
* **Android App Programming -** Created a number of functions for a First Responder’s PED (Personal Electronic Device):  
  a ‘Memo’ function to capture notes on events, conditions, etc.; a ‘Roster’ function to display the names of all First Responders in the vicinity; a ‘Situational Awareness’ function to provide the location of the First Responder’s PED and the locations of the other First Responders (using Google Maps) and a ‘Camera’ function to capture video/snapshots to record events.
* **C & C++ Programming -** Implemented different sorting algorithms using C++. Developed Dijkstra’s algorithm program in C++. Developed a C++ parsing program for use with a command prompt (to create and add new user defined commands).
* **GUI Programming, C++ -** Used extending classes, existing interfaces, multithreading, cloning objects, RTT information and advanced language constructs such as inner classes. Used various packages provided by the Java platform, networking, stream I/O and random access file I/O, collection classes, and programming GUIs for applications.
* **Java Programming** - Developed byte and matrix implementation programs. Developed an encryption program in C++ and a counterpart in Java. Developed application processes to manipulate a Neo4 graph database and output search results.
* **Python Programming -** Created and implemented byte, stack, and searching algorithm programs.
* **Other Programming languages -** Coursework also included Assembly, Forth, Haskell, and Arduino.
* **Final project** - Designed and created a drone project in a team environment using Node.jsand an AR-drone.
* **Database Development and Project Leadership** - Database initial design/development using SQL. Performed as “first up” in rotating team lead to create a database of records for helping handicapped people search for accommodating devices (such as hearing aids, wheelchairs, therapy apps, etc) with SQL. Involved in the design, analysis, and programming of the database.
* **Network Experience** - Created and implemented a socket program for client/server command processing program for print jobs.
* **Operating Systems Experience -** Experience using Windows 7/Windows 10, UNIX/LINUX, and Android operating systems.
* **Other Applications** - Skills using Word, Excel, PowerPoint, Access and SQL. Also skilled in doing internet searches and email.

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| Work Experience |

**Web Penetration Tester (PT contractor) –** Behavior Data Strategies, LLC DBA”Aced Intervention” –Denver, CO – April 2018 to present.

* Currently learning about penetration testing of external web/mobile applications using Udemy Online course
* Currently learning skills to do pen testing of external web/mobile applications.

**Production/Warehouse Technician -** Blue Star Recyclers – Denver, CO – September 2017 to April 2018.

* Currently disassembling computers, and sorting electronic parts for recycling.

**Student Trainee (Engineering)** -First Responder Network Authority (FIRSTNET) – US Dept of Commerce (12 wk internship) - Boulder, CO - June 2017 to September 2017.

* Research & Development (R&D) of public safety focused applications to assist first responders (using Android platform).
* Developed an Android App prototype to provide first responders with Memo/ Roster/ Situational Awareness/ Camera functions (elaborated upon in Summary of Qualifications).

**IT Department Assistant** - Goodwill Industries - Denver, CO (temporary position) - December 2016 to March 2017.

* Work involved installing operating systems, video tele-conferencing applications, and internet connectivity software (browsers, anti-virus software, and various business applications) on company computers.

**Physics Lab Assistant** -Metro State University – Denver, CO - January 2014 to March 2016.

* Work included a project developing a hard/soft interface using an Arduino platform (microcontroller and computer) to scan RFID chips.