# Xavier Caracter

723 Camino Plaza #105, San Bruno, CA, 94066 | (650) 518-3813 | xaviercaracter@gmail.com

### **Summary**

An Agile/Scrum oriented college student looking to gain experience in the field of software development. I want to provide value by acquiring and leveraging domain knowledge while applying my academic experience to achieve customer and business goals.

### Skills

- Java
- Python
- C
- SQL
- UNIX/Linux

- HTML 5 & CSS
- Shell Scripts
- MS Power BI
- MS Access Development
- Agile/Scrum Operations

### **Education**

#### **BOISE STATE UNIVERSITY**

- Major: Computer Science
- Minor: Mathematics
  - College of Engineering Dean's List
  - o Current BSU GPA: 3.5
  - Anticipated Graduation: Spring 2024

#### ARCHBISHOP RIORDAN HIGH SCHOOL

- General Education
- National Honor Society

## Leadership and Extra Curricular Activities

- Boise State Blue Thunder Marching Band (Drumline)
- Archbishop Riordan High School Football (Varsity Quarterback)
- Archbishop Riordan High School Marching Band (Drumline Captain)
- Archbishop Riordan High School Basketball, Track and Field

(Please see attached appendix for development experience)

# Appendix

## **Development Experience**

Java (Top 3 of 19)

0010 (10p 0 01 10)	
Program Name	Program Description
Hashing Test	I created a Hash Table data structure and developed automated
	testing that confirmed data insertion and compared searching
	speeds using various data types.
Circuit Tracer	The program uses a brute force algorithm to find the most
	efficient paths on a "Circuit Board".
Minecraft Modification	Using Java, I modified Minecraft ("sandbox" user game) by
and Multiplayer Server	creating and editing new and existing objects. I was the server
Admin	administrator and was responsible for configuring server
	functionality.

• Python (Top 3 of 11)

Tytholi (Top 5 of 11)	
Program Name	Program Description
Recommender	The program gives book recommendations from a set of data provided by users and calculates the average ratings of the books.
Gerrymandering	The program detects probable gerrymandering within a state using data provided by a user via a formatted text file.
DNA	The program reads data (genetic sequences) from a formatted text file and determines if the genetic sequences are proteins.

• C (Top 3 of 21)

/	
Program Name	Program Description
Online Shopping Cart	A user selects their desired items and the program creates an
	invoice based on the same items.
Gradebook	This program creates a sorted grade book using student and
	grade data provided by a formatted text file.
Playlist	The program creates a playlist that can add, change the position
-	of, and delete songs from said playlist.

• SQL (Top 3 of 3)

Program Name	Program Description
School Management System/Class Registry	Using MySQL, I designed a mock school management system, where CRUD operations for students, teachers, and faculty are
, , , , , , , , , , , , , , , , , , , ,	supported.
Gene Bank Search Database	Using SQLite, I added the results of a gene bank search to a database and generated query results for spreadsheet manipulation.
Who Am I?	Using SQL for querying and MS Power BI for data visualization, this program creates genealogy reports for analysis purposes.

### Appendix cont.

### **Personal Projects**

- Java
  - Directory Copier
    - This program takes two directories (a source and destination) and copies the contents of the source directory into the destination directory. <a href="Value Statement:">Value Statement:</a> I wanted to find a solution to copying entire directories without having to constantly drag and drop files everywhere. With my program, I was able to do some much-needed hard drive cleanup in a more efficient manner, as well as having total control of where I am sending my files.
  - Matrix File Format Checker
    - This program checks the format between two files that contain matrix data, only accepting the files that fit a specific format.
      <u>Value Statement:</u> The purpose of this project was to have a program that will check the various matrix input files versus having to reiterate the solution across multiple assignments.
- Python
  - Composer.py
    - This program takes the information given from two input files and produces a chord progression as well as a small solo piece from user input.

<u>Value Statement:</u> I wrote this program as a small demonstration for my university jazz history class. Since my professor was intrigued by computer science and programming, I put together this musical program and we played the output chords and solo piece.