

Coding Experience

While pursuing my Bachelor of Arts in Communication at University of Colorado Boulder, I began coursework toward a minor in Data Science. Prior to college, I had already been exposed to several programming languages including JavaScript, HTML, C++, and Python. This gave me a strong technical foundation early on. Today, I am most proficient and comfortable working with Python, HTML, and SQL.

Below is a summary of my experience with each language:

C++

During my senior year of high school, I learned the fundamental concepts of C++ while programming Arduino boards. My coursework culminated in a final project that involved designing and coding a forest fire detection system, which introduced me to problem solving through embedded systems and hardware based programming.

JavaScript

Between my freshman and sophomore years of high school, I attended a week-long coding camp at SUNY Polytechnic. There, I learned the basics of JavaScript and explored its use in game development. Working collaboratively with other campers, I helped design, test, and refine video games, gaining early experience in both programming logic and teamwork.

HTML/CSS

My first exposure to HTML and CSS came during my junior year of high school through an online BOCES course. This experience introduced me to web development and the structure behind building websites. For the final project, I created a personal website from scratch.

I later expanded my HTML experience during an internship with SIDEARM Sports following my freshman year of college, where I worked as a Data Curator. My understanding of website back-end structure and strong work ethic allowed me to take on leadership responsibilities, including helping division one collegiate institutions and amateur conferences transition to SIDEARM software.

Building on this experience, I now serve in a more technical role as a Compliance Coordinator at Syracuse University, where I am often referred to as the “webmaster.” In this role, I led the redesign of the Athletic Communications webpages and continue to manage and update them using HTML.

Python

Most of the coursework required for my Data Science minor was Python oriented, allowing me to become highly proficient in the language. I gained experience using libraries such as NumPy, pandas, and BeautifulSoup, and developed a strong interest in API calls and data scraping,

particularly for sports analytics. As I progressed through the minor, I framed many assignments around sports related interests. One course culminated in a final project (featured in my portfolio) that analyzed historical data to predict which NHL teams had the best chance of winning the Stanley Cup. Beyond coursework, I have applied Python in professional settings to scrape data, automate workflows, and eliminate time consuming manual data entry.

SQL

In my senior year at CU Boulder, I completed INFO 3401: Information Exploration, a hands-on course focused on SQL. Throughout the semester, I worked extensively with relational databases, writing complex queries, joining and filtering large datasets, performing data cleaning and aggregation, and using nested queries to answer research questions. This course strengthened my ability to use SQL as a practical tool for data exploration and insight generation.

I am open and eager to demonstrate my proficiency in any of the languages listed above, as well as R. I am confident in my ability to leverage my programming skills to design and implement automated solutions that significantly improve efficiency and reduce manual data entry.