**Introduction**

Throughout my studies at Southern New Hampshire University, I have gained valuable knowledge and practical skills in computer science, software development, and data analysis. These courses, combined with my prior experience in software testing, have allowed me to grow both academically and professionally.

This self-evaluation highlights what I have learned from my courses, how I have applied this knowledge, and how these skills will support my career goals in the future.

**What I Have Learned**

**1. Software Development & Testing**

* Developed a strong understanding of the **Software Development Life Cycle (SDLC)** and its importance in delivering high-quality, maintainable software.
* Gained experience in **software testing automation** using **Selenium WebDriver** with **Java**, including writing and executing test cases, setting up frameworks, and verifying functionality.
* Practiced different types of testing: functional, performance, and security.
* Strengthened coding skills in **Java** and **Python** for test automation and problem-solving.

**2. Databases & Data Handling**

* Learned to write **SQL queries** for managing relational databases.
* Worked with **MongoDB** to perform CRUD operations and manage unstructured data in projects.
* Understood the importance of database design, client-server systems, and efficient data storage for application development.

**3. Full-Stack Development (CS-465)**

* Learned the **MEAN stack (MongoDB, Express.js, Angular, Node.js)** to build complete web applications.
* Acquired skills in:
  + **Front-end development** (HTML, CSS, Angular) for user interfaces.
  + **Back-end development** (Node.js, Express.js) for APIs and server logic.
  + **Database integration** using MongoDB for dynamic data management.
* Understood how to connect front-end, back-end, and databases into fully functioning applications.

**4. Project Management & Methodologies**

* Applied **Agile methodology** and used **Jira** for managing team-based projects.
* Learned how to analyze project requirements, create **wireframes**, design **class diagrams**, and effectively communicate with stakeholders.
* Developed confidence in working independently on milestone projects by applying structured planning and iterative development.

**5. Data Analytics Foundations**

* Gained knowledge in **data cleaning, modeling, and statistical analysis**.
* Built skills in **Excel dashboards**, **SQL for data manipulation**, and **data visualization** using tools like Power BI and Tableau.
* Understood how data-driven decision-making can improve processes and outcomes.

**How This Will Help My Future**

The combination of software development, testing, full-stack project work, and data analytics has prepared me for a wide range of career opportunities. Specifically:

* My **automation testing** and **software development** knowledge will allow me to contribute to quality assurance and software engineering roles.
* My **full-stack development skills** will enable me to participate in end-to-end application development, from user interface to back-end logic and database management.
* My **data analytics training** provides a strong foundation for pursuing my career goal of becoming a **Data Analyst**.
* The experience with **Agile methodologies, Jira, and stakeholder communication** will help me succeed in collaborative team environments and future project management tasks.
* Continuous learning and adapting to new tools, frameworks, and industry trends will allow me to grow professionally in both software and data-driven fields.

**Conclusion**

Looking back at the courses I have completed at SNHU, I recognize how much I have grown in technical knowledge, problem-solving ability, and professional confidence. The skills I have developed will not only help me succeed in my immediate career path as a **Data Analyst**, but also provide flexibility to work in areas of software development, testing, or full-stack engineering.

This learning journey has equipped me with the tools to be adaptable, resourceful, and prepared to tackle future challenges in the technology field.