

Course Category	Course Name	Skills	Strongest	Weakest	Github Examples of work
<b>Data Analytics Course 1</b>	Business Intelligence & Database Systems	SQL (Structured Query Language) Database management skills Data modeling Data visualization tools (e.g., Tableau, Power BI) Understanding of business processes	SQL proficiency for database querying. Data modeling and database design skills. Knowledge of business intelligence tools (e.g., Tableau, Power BI).	New to creating web servers and coding from scratch, was a large learning curve to the final project	<a href="https://github.com/jpunfred/MastersCapstone/tree/main/Summer%20I%202023/BIDSS">https://github.com/jpunfred/MastersCapstone/tree/main/Summer%20I%202023/BIDSS</a>
<b>Data Analytics Course 2</b>	Seminar Data/Analytics	Familiarity with basic statistical concepts. Understanding of probability and its applications in data analysis.	Class currently in progress, but is the basics to Data Mining so I have an upper edge	Unfamiliarity with the absolute basics, ready to learn	Class in Progress
<b>Data Mining and Management Course 1</b>	Business Data Etl	ETL processes and tools Database design and implementation Data warehousing concepts Understanding of business requirements	Extract, Transform, Load (ETL) process understanding. Database design and implementation skills. Data warehousing concepts.	Navigating complex Extract, Transform, Load processes.	<a href="https://github.com/jpunfred/MastersCapstone/tree/main/Summer%20I%202023/BIDSS">https://github.com/jpunfred/MastersCapstone/tree/main/Summer%20I%202023/BIDSS</a>
<b>Data Mining and Management Course 2</b>	Data Mining Methods	Statistical analysis and modeling Machine learning algorithms Data preprocessing techniques Data interpretation and presentation	Statistical analysis and modeling expertise. Machine learning algorithms understanding. Data preprocessing techniques.	New to the programming language of R and use of RapidMiner, also new to the concept of developing a research paper with data mining results	<a href="https://github.com/jpunfred/MastersCapstone/tree/main/Fall%202023/Data%20Mining/Data%20Mining">https://github.com/jpunfred/MastersCapstone/tree/main/Fall%202023/Data%20Mining/Data%20Mining</a>
<b>Systems Development Course 1</b>	E-Commerce and Web Development	HTML, CSS, JavaScript for web development Server-side scripting (e.g., PHP, Python, Node.js) E-commerce platforms and technologies Security best practices in web development	Python coding, previous use of Django in Tech foundations, previous use of using an Ubuntu from AWS	Still unfamiliar starting from scratch on coding, unfamiliar with Django from the beginning and its implementation with python	<a href="https://github.com/jpunfred/MastersCapstone/tree/main/Fall%202023/Data%20Mining/ECommWebDev/Final%20Project">https://github.com/jpunfred/MastersCapstone/tree/main/Fall%202023/Data%20Mining/ECommWebDev/Final%20Project</a>
<b>Systems Development Course 2</b>	Technical Foundations CIS	Computer architecture and organization Operating systems concepts Programming languages (e.g., Java, C++) Software development methodologies	Basic class to cover entry level knowledge, previous python experience, and willingness to begin master's courses	Navigating complex Extract, Transform, Load processes.	<a href="https://github.com/jpunfred/MastersCapstone/tree/main/Fall%202022/Tech%20Foundations">https://github.com/jpunfred/MastersCapstone/tree/main/Fall%202022/Tech%20Foundations</a>
<b>Networking and Cybersecurity Course 1</b>	Cybersecurity	Network security protocols and technologies Cryptography Incident response and management Security policies and risk management	IT background and regular practices in everyday life, General cybersecurity practices and cryptography	Still a lack of advanced knowledge in the field and business implementation, as well as best practices	<a href="https://github.com/jpunfred/MastersCapstone/tree/main/Spring%202023/Cybersecurity">https://github.com/jpunfred/MastersCapstone/tree/main/Spring%202023/Cybersecurity</a>
<b>Networking and Cybersecurity Course 2</b>	Network Management & Information Security	Network administration and management Security infrastructure implementation Monitoring and troubleshooting network issues Information security principles	IT background and regular practices in everyday life, previous practice with Network+ certification, and Wireshark	Lack in advanced knowledge in the field, and practical application in business everyday use. Need more hands on experience	<a href="https://github.com/jpunfred/MastersCapstone/tree/main/Summer%20II%202023/Network%20Management">https://github.com/jpunfred/MastersCapstone/tree/main/Summer%20II%202023/Network%20Management</a>