**CSE 310 – Applied Programming**

**Module Plan**

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| **Name:** | Chris Leavitt |
| **Date:** | 05-08-23 |
| **Teacher:** | Birch |
| **Module # (1-5):** | 2 |

1. Identify which module you have selected to work on. Place an “X” under the “Selected Module” column.

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| **Modules** | **Selected Module** |
| Cloud Databases |  |
| Data Analysis | x |
| Game Framework |  |
| GIS Mapping |  |
| Mobile App |  |
| Networking |  |
| SQL Relational Databases |  |
| Web Apps |  |
| Language – C++ |  |
| Language – Java |  |
| Language – Kotlin |  |
| Language – R |  |
| Language – Erlang |  |
| Language – JavaScript |  |
| Language – C# |  |
| Language - TypeScript |  |
| Language – Rust |  |
| Choose Your Own Adventure |  |

1. At a high level, describe the software you plan to create that will fulfill the requirements of this module. This may change as you learn more about the technology or language you are learning.

I will find a free dataset and ask two questions about it. Then, I’ll write a program in Pandas to analyze the dataset and provide answers to my questions. The software must be able to filter, sort, aggregate (sum, average, count), or data conversion. I may also identify a third question from the dataset and write code to answer it.

1. Create a detailed schedule using the table below to complete your selected module during this Sprint. Include details such as what (task), when (time), where (location), and duration. You should also include time to work on your team project. You are expected to spend 16 hours every Sprint working on your individual module, team project, and other activities. Time spent on this individual module should be at least 10 hours.

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|  | **First Week of Sprint** | **Second Week of Sprint** |
| **Monday** | Write and submit the module Plan (3:30pm-4:30pm, 1 hour) | Work on the Practice Me in 30 seconds (4:30pm-5:30pm, 1 hour) |
| **Tuesday** | Read up on Pandas in the Module Description on Canvas (3:00pm-6:00pm, 3 hours) | Continue coding (3:00pm-6:00pm, 3 hours) |
| **Wednesday** | Continue reading (3:00pm-5:00pm, 2 hours) | Continue coding (3:00pm-6:00pm, 3 hours) |
| **Thursday** | Work on Team Project (12:45pm-2:45pm, 2 hours)  Select Dataset, come up with questions, and being coding (3:00pm-6:00pm, 3 hours) | Work on Team Project (12:45pm-2:45pm, 2 hours)  Continue coding (3:00pm-6:00pm, 3 hours) |
| **Friday** | Continue coding (3:00pm-6:00pm, 3 hours) | Continue coding (3:00pm-6:00pm, 3 hours) |
| **Saturday** | Work on Team Project (12:45pm-2:45pm, 2 hours) | Work on Team Project (12:45pm-2:45pm, 2 hours)  Finish coding and submit (3:00pm-6:00pm, 3 hours) |

1. Identify at least two risks that you feel will make it difficult to succeed in this module. Identify an action plan to overcome each of these risks.

Risk 1: Not having time for other classes or my team to work on the module. Hopefully following the schedule will help with that.

Risk 2: Not having the skill or ability to complete the code. I do have the internet, classmates, teacher, TA, and on campus resources if ever I get stuck in my coding.