**Name:** Akutra-Ramses Atenosis Cea

**Major:** Advancing Computer Science

* **Follow a software development process to analyze a problem, and to design, build, test and document software solutions.**
  + In several projects I utilized Agile. Class projects include : CSC330O Mobile Platform Development, PRO211O SIP I, CSC318O Software Engineering Principles
* **Demonstrate software development skills using more than one programming language and development environment.**
  + Since I prefer C# many class projects were written in C#.NET and Visual Studio.
  + My SIP project is a windows platform ASP.NET project.
    - It is written in C# and works with XML, RSS, and JSON content.
    - The example projects will utilize HTML, ASP.NET, JavaScript and CSS.
    - Optionally, I could re-develop the project into Java. I feel I wouldn’t have enough time for this in 5 weeks.
  + My personal project in CSC330O Mobile Platform Development and written in Java for Android (Android Studio)
  + A group project also in CSC330O Mobile Platform Development ‘Attraction’ was developed in Visual Studio Xamarin for Android.
  + In CSC275O C++II and CSC215O C++I, I created several programs in C++.
* **Design and implement software solutions across multiple platforms.**
  + CSC330O Mobile Platform Development: Java, C#/Xamarin, Android. Xamarin is a cross-platform development tool for C# Visual Studio
  + While my SIP is a Windows project, being a web component the users can utilize nearly any platform to access the resulting HTML.
  + Several of my projects are not extremely platform dependent and could be adapted to other forms such as Java. An example of one is the AES encryption/decryption project in CSC330O Encryption Theory.
* **Design and implement software solutions for mobile devices, embedded systems, or standalone systems.**
  + My personal project in CSC330O Mobile Platform Development was written in Java for Android (Android Studio)
  + A group project also in CSC330O Mobile Platform Development ‘Attraction’ was developed in Visual Studio Xamarin for Android.
* **Document the planning and development of software applications using industry standard tools, techniques, and processes.**
  + My SIP utilizes ‘n-tier’ architecture.
  + In PRO211O SIP I, CSC318O Software Engineering Principles and CSC330O Mobile Platform Development, I utilized the agile development process and documentation for the projects.
* **Within software solutions describe, implement and analyze data structure techniques such as lists, trees, hashtables, graphs, along with sorting and searching algorithms.**
  + In CSC275O C++ II, I created projects that included sorting, searching.
  + CSC380O Encryption Theory and my SIP project include hashtables
  + My personal project in CSC330O included custom ListViews and Lists
  + CSC318O Software Engineering Principles included trees, hash tables, sorting and searching
  + CSC360O Artificial Life included hash tables, sorting, and lists.