M.S. in Computer Science

Learning Outcomes

Students will be able to:

- Analytically determine the running time of a program and validate the analysis experimentally; solve a specific problem by selecting appropriate data structures and algorithms and customize them to the problem.

- Design a solution to a given problem using one or more design patterns and implement the design in a programming language.

- Criticize a program on the basis of its maintainability and suggest improvements; interpret new APIs and use them in developing computer applications.

- Implement systems that run across several distributed computers.

- Write programs that interact with databases.

- Decompose problems using techniques from functional and object-oriented programming.

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