Independent Scholarship Award: Computer Science		
Bronze (Must Be Completed)	Silver	Gold
Read the following title and one other from the list	As bronze, including the following:	As silver, with the addition of a
below.		synopsis of a third title.
	Learn a second language using a	
(Free and Online)	structured online course or book	
How to Think Like a Computer Scientist by Peter	Languages, Cada Acadamu	
Wentworth, Jeffrey Elkner, Allen B. Downey, and Chris	Languages: Code Academy https://www.codecademy.com/	
Meyers	C++, Java script etc.	
http://openbookproject.net/thinkcs/python/english3e/		
Computers Ltd: What They REALLY Can't Do by D.		
Harel		
Harel explains and illustrates one of the most		
fundamental, yet under-exposed facets of computers -		
their inherent limitations. Looking at the bad news that		
is proven, lasting and robust, discussing limitations that		
no amounts of hardware, software, talents or resources		
can overcome, the book presents a disturbing and		
provocative view of computing at the start of the 21st		
century. Though we may strive for bigger and better		
things in computing, we need to be realistic: computers		
are not omnipotent - far from it. (Also see		
Algorithmics: The Spirit of Computing By David Harel,		
Yishai A. Feldman)		
Computer Science Distilled: Learn the Art of Solving		
Computer Science Distined. Learn the Art of Solving Computational Problems by Wladston Ferreira Filho		

Egypt to Quantum Cryptography by Simon Singh	
The Code Book: The Science of Secrecy from Ancient	
textbooks, this is the book for you.	
and the dense multi-page proofs you'll find in most	
hard pass on Knuth's brilliant but impenetrable theories	
discovered, tested, and proven. If you want to take a	
use most often as a programmer have already been	
procedure for solving a problem. The algorithms you'll	
An algorithm is nothing more than a step-by-step	
Bhargava	
Programmers and Other Curious People by Aditya Y.	
Grokking Algorithms An Illustrated Guide For	
mind.	
problems and illuminate the workings of the human	
lives, helping to solve common decision-making	
computer algorithms can be applied to our everyday	
A fascinating exploration of how insights from	
Human Decisions by Brian Christian, Tom Griffiths	
Algorithms to Live By: The Computer Science of	
who want to program computers effectively.	
science guide. It teaches essential concepts for people	
the academic formality, it's a fast and easy computer	
science concepts. Designed for readers who don't need	
A foolproof walkthrough of must-know computer	

In his first book since the bestselling Fermat's Enigma, Simon Singh offers the first sweeping history of encryption, tracing its evolution and revealing the dramatic effects codes have had on wars, nations, and individual lives. From Mary, Queen of Scots, trapped by her own code, to the Navajo Code Talkers who helped the Allies win World War II, to the incredible (and *incredibly simple) logistical breakthrough that made* Internet commerce secure, The Code Book tells the story of the most powerful intellectual weapon ever known: secrecy.