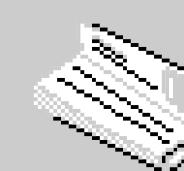
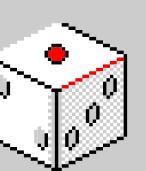
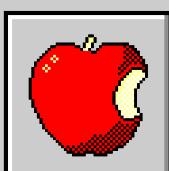


ALL YOU NEED TO KNOW ABOUT COMPUTER SCIENCE



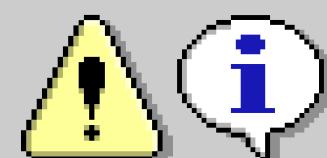
Presented by: Gesite, Dan Joseph



INTRODUCTION TO COMPUTING

Tip: Use links to go to a different page inside your presentation.

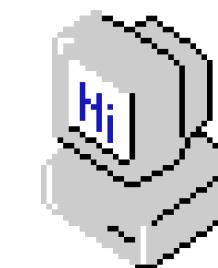
How: Highlight text, click on the link symbol on the toolbar, and select the page in your presentation you want to connect.



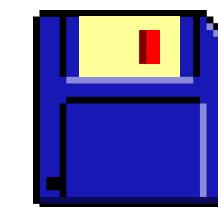
Topics Covered



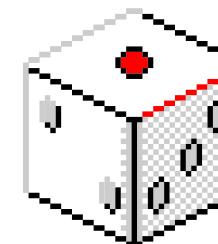
Start



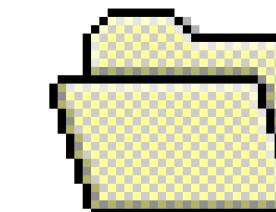
Computer Science as
discipline



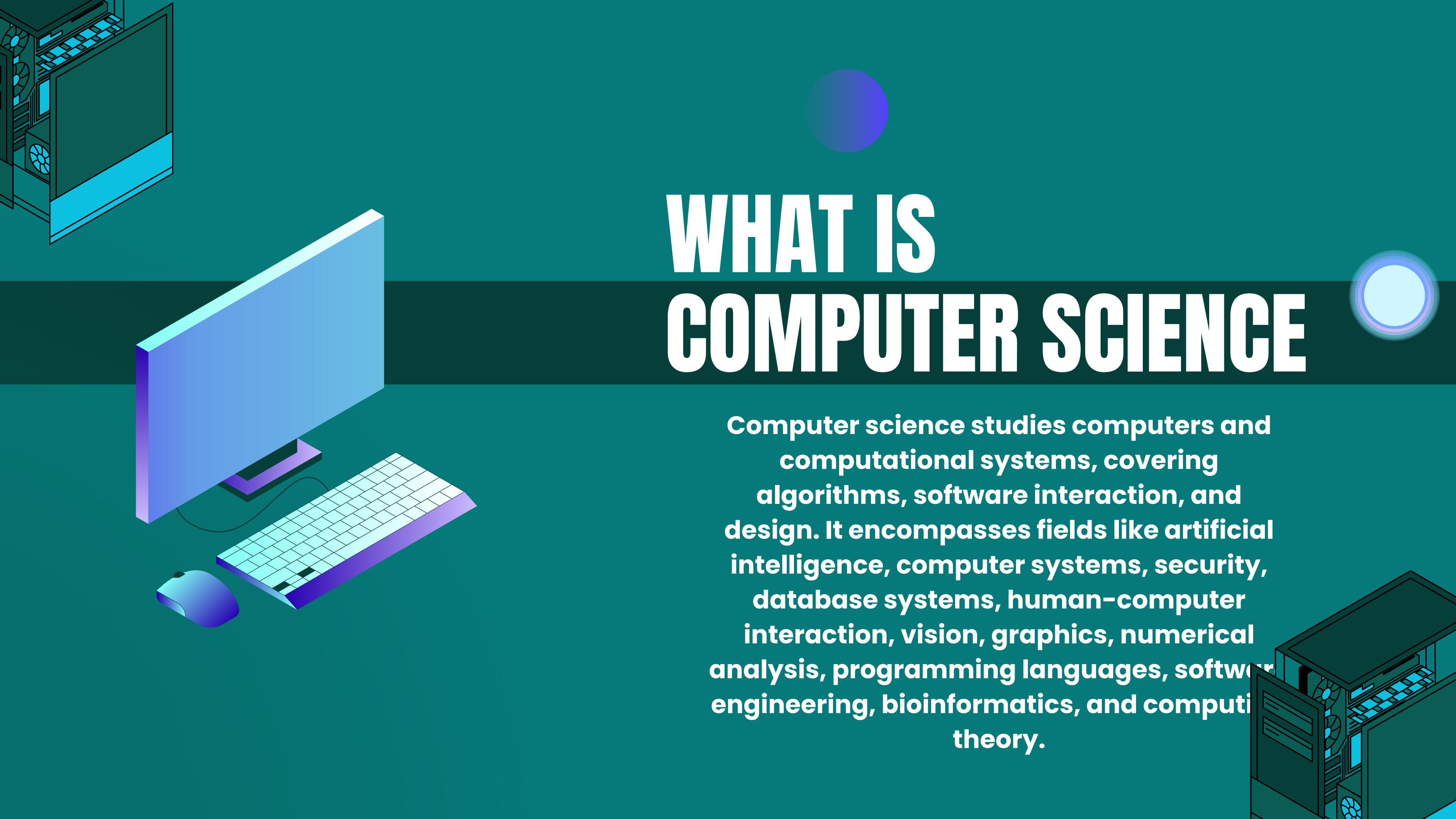
History of
Computer Science



Computing Disciplines
and Major



Careers that
aligned the Majors



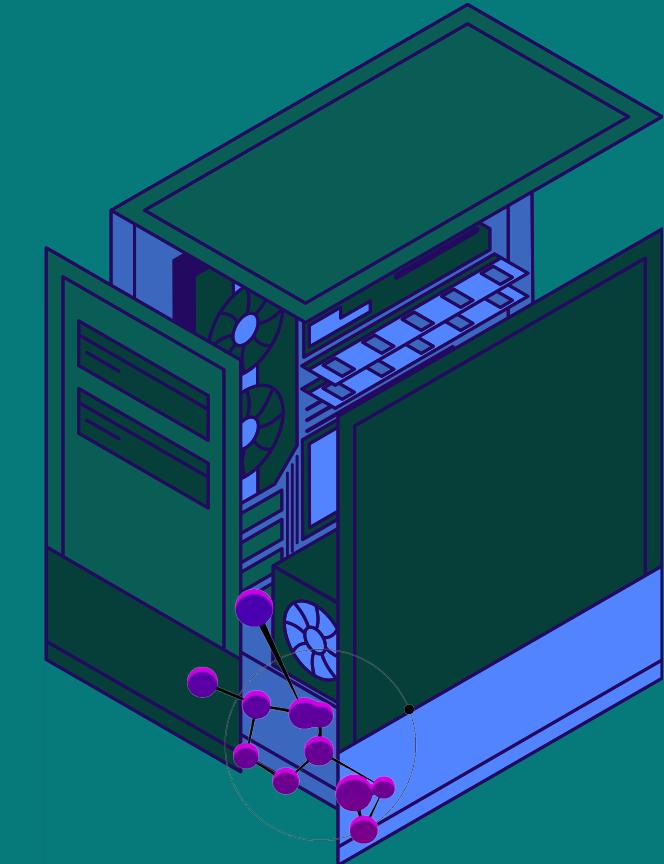
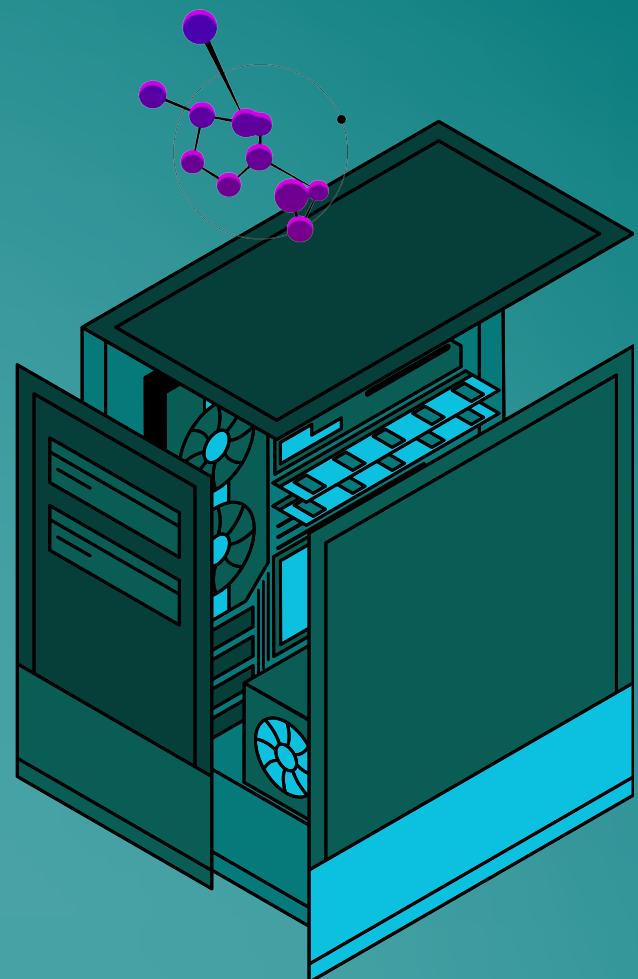
WHAT IS COMPUTER SCIENCE

Computer science studies computers and computational systems, covering algorithms, software interaction, and design. It encompasses fields like artificial intelligence, computer systems, security, database systems, human-computer interaction, vision, graphics, numerical analysis, programming languages, software engineering, bioinformatics, and computing theory.

COMPUTER SCIENCE

AS DISCIPLINE

Computer Science is an academic discipline that focuses on computing, theory, abstraction, and design, using mathematical algorithms, coding procedures, and expert programming skills to study computer processes and develop new software and systems.





HISTORY OF COMPUTER SCIENCE

The computer science field began with Ada Lovelace in the 1830s and evolved into artificial intelligence in the 1940s. Charles Babbage created the first programming language in the 1950s. George Forsythe introduced the term "computer science" in 1961, encompassing programming theory, data processing, numerical analysis, and computer systems design.



COMPUTER SCIENTISTS AND THEIR CONTRIBUTIONS

CHARLES BABBAGE

A Victorian mathematician, invented the Analytical Engine, the first automatic calculator, and is considered the "father of computing" due to his unbuilt machine.



ADA LOVELACE

The first programmer in history and daughter of Lord Byron, wrote algorithms for the Analytical Engine, laying the foundations for modern programming.



ALAN TURING

During WWII, Germans invented the Enigma machine to encrypt messages, which Alan Turing cracked, contributing to modern computing and artificial intelligence theories.



COMPUTER SCIENTISTS AND THEIR CONTRIBUTIONS

TIM BERNERS-LEE

Tim Berners-Lee invented the World Wide Web, a system for accessing web pages on the internet, with "www." indicating a site search, despite numerous advancements.



STEVE WOZNIAK

Steve Jobs co-founded Apple in 1976, releasing the Apple II in 1977, which revolutionized the computer and smartphone markets by making owning computers easier for the general population.



LINUS TORVALDS

Linus Torvalds, best known for creating the Linux Operating System, created the kernel, a core component essential for system functionality, offering a free, base-level alternative to Windows and Mac iOS.



Computer Discipline and Majors



- **Computer Engineer**

Computer engineers develop, manufacture, ~~and test hardware~~ components and systems

- **Computer Science**

Computer science encompasses both theoretical and applied fields, focusing on fundamental topics such as computation, information, and automation.

- **Information System**

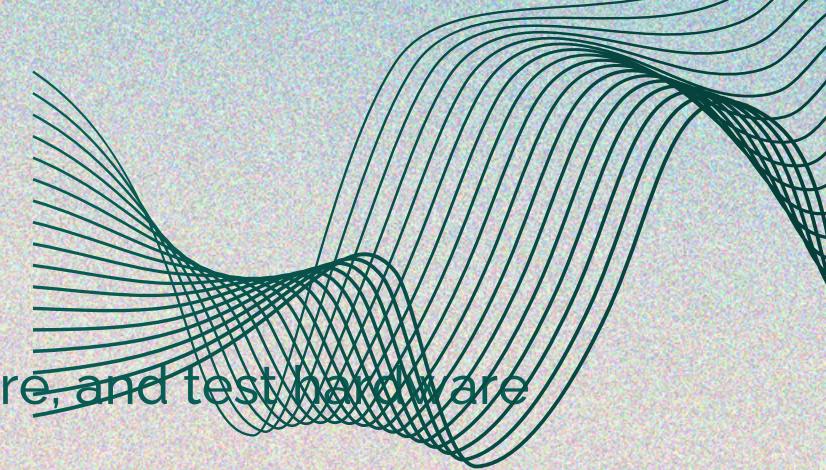
An information system is the collection, storage, and analysis of data, encompassing information, knowledge, and digital products.

- **Information Technology**

Information technology encompasses computer systems, software, programming languages, data and information processing, and storage.

- **Software Engineer**

Software engineering is an engineering-based approach to software development. A software engineer uses the engineering design process to produce software.





PRESENTED BY: GESITE,
DAN JOSEPH



THANK
YOU