

Life of a Software Engineer

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Computer science is...

the study of the theoretical foundations of information and computation, and of practical techniques for their implementation and application in computer systems.

Software engineering is...

a profession dedicated to designing, implementing, and modifying software so that it is of higher quality, more affordable, maintainable, and faster to build.

Software engineering is not...

a profession where you work alone in front
of a computer for 10 hours a day.



"Computer science is no more about computers than astronomy is about telescopes."

-Edsger W. Dijkstra



How many lines of "production" code does the average software engineer write per day?



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Only between 10 and 20!!!

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Solve Problems!

code
maintenance

understanding
existing code

team meetings

working with clients

bugs

whiteboarding

writing new
code

email

code reviews

documentation

testing

design reviews

deployment

monitoring

Patience

Science

Curiosity

Math

Enjoys being
challenged

Self driven

Communication Skills

Organized

Why Computer Science?

- Impact millions of people
- Create something new
- Open source development
- Flexible hours and "WFH"
- It's fun and challenging
- Rewarding

The basics of CS



Algorithms

Set of steps used to solve a problem

Data structures

How data is stored and organized in memory

Complexity

How "fast" the algorithm runs

Thank you!

Questions?

Google