

Forum:[Hack Forums](#)

Thread: [Software Developer vs Software Engineer](#)

Spider Venom - July 30, 2015, 1:33 am

What is the difference between a Software Developer and Software Engineer?

sunrix - July 30, 2015, 3:50 am

Code

http://www.softwareengineerinsider.com/articles/software-development-software-engineering.html#Vbn_JpPhk_s

I guess everything you want to know is here.

movsx - July 30, 2015, 5:32 am

Software engineers make more money than developers, and often have more responsibilities. They will also do things like research, collect data, write final design specifications, follow regulations, etc, AND code. They also require much more education/harder difficulty level.

Software developers are typically just code monkeys, and are outsourced very often. You can do this job without a degree. Most people working here have either 2 year or 4 year degrees from a college. (Pretty blunt, and hopefully not offensive to anyone, but in my experience it is the truth).

Multiverse - July 30, 2015, 5:33 am

Let me Google that for you, here's your answer > bfy.tw/145X ?

Corios - July 30, 2015, 12:50 pm

(Jul 30, 2015 05:32 AM)movsx Wrote: [\[CITE\]](#) Software engineers make more money than developers, and often have more responsibilities. They will also do things like research, collect data, write final design specifications, follow regulations, etc, AND code. They also require much more education/harder difficulty level.

Software developers are typically just code monkeys, and are outsourced very often. You can do this job without a degree. Most people working here have either 2 year or 4 year degrees from a college. (Pretty blunt, and hopefully not offensive to anyone, but in my experience it is the truth).

Software engineers are developers as well and that's not always true. They don't have more responsibilities, just different ones. Software programmers are usually the code monkeys, software developers aren't usually out sourced. You're getting programmer and developer mixed up, which I can't blame you because most use the words interchangeably. And no, no software engineer has multiple degrees unless they minored in like mathematics or something. You go for a CIS or CS in some cases and that's it, it's pointless to get multiple.

glitchgxd - July 30, 2015, 2:13 pm

This is fairly opinion-based, as the work of a software engineer/developer is dependant on the work they are hired to perform.

What seems to make sense to me is that the title of a software engineer could be someone who designs the skeleton of a system, whereas a software developer layers the meat of the project. They usually will be able to perform both jobs, however, which makes them interchangeable. The approach is what changes in each scenario of the project.

Apathy - July 31, 2015, 3:33 am

(Jul 30, 2015 12:50 PM)Corios Wrote: [\[CITE\]](#) Software engineers are developers as well and that's not always true. They don't have more responsibilities, just different ones. Software programmers are usually the code monkeys, software developers aren't usually out sourced. You're getting programmer and developer mixed up, which I can't blame you because most use the words interchangeably. And no, no software engineer has multiple degrees unless they minored in like mathematics or something. You go for a CIS or CS in some cases and that's it, it's pointless to get multiple.

Yes, most software engineering and software developer jobs require both just a Bachelor's in CS or a similar major.

ubuntusucksdict - July 31, 2015, 1:24 pm

Engineers are good at math (bachelors in applied science) as opposed to cs majors (bachelor of science, arts)

Zer0Fact0r - July 31, 2015, 1:51 pm

Semantically developer and engineer are different and I think the posters above covered a lot of it. Basically engineering = more rigor.

However I've found that in practice software engineer is basically a fancy way of saying software developer, and it's just a title that varies by company.

Apathy - July 31, 2015, 1:55 pm

(Jul 31, 2015 01:24 PM)ubuntusucksdict Wrote: [\[CITE\]](#) Engineers are good at math (bachelors in applied science) as opposed to cs majors (bachelor of science, arts)

There are many computer science students who are very good at math. Many computer science programs are math-intensive. Some even argue that math should be considered a branch of mathematics.

Math and computer science go hand in hand.

Corios - July 31, 2015, 2:13 pm

(Jul 31, 2015 01:24 PM)ubuntusucksdict Wrote: [\[CITE\]](#) Engineers are good at math (bachelors in applied science) as opposed to cs majors (bachelor of science, arts)

CS is a part of the Schools of Engineering lol, if you graduate with a CS degree you're an engineer. And aside from that, most CS majors require calc 3 + linear which is pretty high up in math (obviously there are more advanced but then it's specific towards topics, which doesn't make you better at math)

(Jul 31, 2015 01:55 PM)Apathy Wrote: [\[CITE\]](#) There are many computer science students who are very good at math. Many computer science programs are math-intensive. Some even argue that math should be considered a branch of mathematics.

Math and computer science go hand in hand.

I think you mean programming a branch of mathematics? :P

And eh, I don't use math much outside of performance optimizations and game programming

Apathy - July 31, 2015, 4:49 pm

(Jul 31, 2015 02:13 PM)Corios Wrote: [\[CITE\]](#) I think you mean programming a branch of mathematics? :P

And eh, I don't use math much outside of performance optimizations and game programming
There are some who argue that CS should be considered a branch of mathematics. I don't agree

with it, but there are people in academia who make a case for it.

I'm not saying that many of the jobs out there are math intensive. I know most of them aren't, but on the theory side of it you run into a lot of mathematics like graph theory and trees, which obviously are applied in programming, cryptography, etc.

ubuntusucksdict - July 31, 2015, 4:51 pm

(Jul 31, 2015 02:13 PM)Corios Wrote: [\[CITE\]](#) CS is a part of the Schools of Engineering lol, if you graduate with a CS degree you're an engineer. And aside from that, most CS majors require calc 3 + linear which is pretty high up in math (obviously there are more advanced but then its specific towards topics, which doesn't make you better at math)

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And eh, I don't use math much outside of performance optimizations and game programming
No it's not. Stop with your bullshit . Cs degree is a joke.

Apathy - July 31, 2015, 4:55 pm

(Jul 31, 2015 04:51 PM)ubuntusucksdict Wrote: [\[CITE\]](#) No it's not. Stop with your bullshit . Cs degree is a joke.

Actually, the CS department at my school is a part of the School of Engineering. I had to apply to the University and then the school before I could be accepted into the major.

Many CS programs are quite rigorous.

ubuntusucksdict - July 31, 2015, 5:23 pm

(Jul 31, 2015 04:55 PM)Apathy Wrote: [\[CITE\]](#) Actually, the CS department at my school is a part of the School of Engineering. I had to apply to the University and then the school before I could be accepted into the major.

Many CS programs are quite rigorous.

A computer science degree falls under bachelor of science, arts, commerce. A bachelor of applied science falls under engineering. That's that.

Apathy - July 31, 2015, 5:27 pm

(Jul 31, 2015 05:23 PM)ubuntusucksdict Wrote: [\[CITE\]](#) A computer science degree falls under bachelor of science, arts, commerce. A bachelor of applied science falls under engineering. That's that.

Wrong, it depends on the school and the program. A computer science degree can be a Bachelor of Applied Science degree. An engineering degree can be a B.S. also.

ubuntusucksdict - July 31, 2015, 5:29 pm

(Jul 31, 2015 05:27 PM)Apathy Wrote: [\[CITE\]](#) Wrong, it depends on the school and the program. A computer science degree can be a Bachelor of Applied Science degree. An engineering degree can be a B.S. also.

You're wrong and trying to find excuses to call yourself an engineer. Stop.

Korosensei - July 31, 2015, 5:32 pm

(Jul 31, 2015 05:23 PM)ubuntusucksdict Wrote: [\[CITE\]](#) A computer science degree falls under bachelor of science, arts, commerce. A bachelor of applied science falls under engineering. That's that.

This is not a set standard across all schools.

Apathy - July 31, 2015, 5:32 pm

(Jul 31, 2015 05:29 PM)ubuntusucksdick Wrote: [\[CITE\]](#) You're wrong and trying to find excuses to call yourself an engineer. Stop.

I've never said that I was an engineer.

You can see right here that Penn offers a BAS in computer science:

<https://www.cis.upenn.edu/current-students/undergraduate/ascs/>

ubuntusucksdick - July 31, 2015, 5:34 pm

(Jul 31, 2015 05:32 PM)Apathy Wrote: [\[CITE\]](#) I've never said that I was an engineer.

You can see right here that Penn offers a BAS in computer science:

[upenn.edu/current-students/undergraduate/ascs/](https://www.cis.upenn.edu/current-students/undergraduate/ascs/)

That's software engineering. Regardless of what they say it is, it's a degree in applied science

Corios - July 31, 2015, 5:43 pm

(Jul 31, 2015 04:51 PM)ubuntusucksdick Wrote: [\[CITE\]](#) No it's not. Stop with your bullshit . Cs degree is a joke.

Yes it is. But yes, CS degree is a joke. University is a joke, while I'm at it. It's pointless and people waste money going to it for it teaching you nothing and it doesn't prove you knowing anything, and the majority of people that graduate from CS majors are still as stupid as someone that just started learning programming. Where did I state my opinion on that matter anywhere in this thread? I'm not defending CS majors, but it IS a part of engineering. You are an engineer by definition.

ubuntusucksdick - July 31, 2015, 5:47 pm

(Jul 31, 2015 05:43 PM)Corios Wrote: [\[CITE\]](#) Yes it is. But yes, CS degree is a joke. University is a joke, while I'm at it. It's pointless and people waste money going to it for it teaching you nothing and it doesn't prove you knowing anything, and the majority of people that graduate from CS majors are still as stupid as someone that just started learning programming. Where did I state my opinion on that matter anywhere in this thread? I'm not defending CS majors, but it IS a part of engineering. You are an engineer by definition.

I'm an electrical engineer and I can confidently say computer science is no where near the level of engineers

People like you who say university is a waste of money are the type of people who get rejected from them

Corios - July 31, 2015, 5:52 pm

(Jul 31, 2015 05:47 PM)ubuntusucksdick Wrote: [\[CITE\]](#) People like you who say university is a waste of money are the type of people who get rejected from them

? I graduated with a masters(not impressive in the slightest). It was a waste of money learning wise, it's a nice shiny piece of paper, but nice try.

And cool, define it how you want. You're wrong, end of story lmao.

ubuntusucksdick - July 31, 2015, 6:08 pm

(Jul 31, 2015 05:52 PM)Corios Wrote: [\[CITE\]](#) ? I graduated with a masters(not impressive in the slightest). It was a waste of money learning wise, it's a nice shiny piece of paper, but nice try.

And cool, define it how you want. You're wrong, end of story lmao.

Masters in cs. Why didn't you bother getting a phd? It's not difficult. It's cs.

Corios - July 31, 2015, 6:25 pm

(Jul 31, 2015 06:08 PM)ubuntusucksdick Wrote: [\[CITE\]](#) Masters in cs. Why didn't you bother getting a phd? It's not difficult. It's cs.

No purpose, needed a Masters to get my job, didn't need to go higher, so oh didn't really care :P