Increased cell phone data use is negatively affecting wi-fi performance

University of Chicago researchers find competition between networks decreases performance.

If service becomes slow when you're trying to send a quick email on your smartphone, you might scroll through your network options and discover how many Wi-Fi networks there are. In fact, this plethora of options is itself the problem.

These networks are in competition with one another, limiting the speed at which each can operate. University of Chicago researchers have demonstrated how this increased network competition could negatively impact internet service for everyday users. Competition between networks arises when they operate on shared spectrum bands, or frequency ranges for electromagnetic waves. In particular, Wi-Fi utilizes a spectrum that is "unlicensed," meaning any device or network can utilize this spectrum as long as certain transmission rules mandated by the Federal Communications Commission (FCC) are followed.

"The unlicensed spectrum is literally a free-for-all; anybody can use it, within the bounds set by FCC," explained Monisha Ghosh, associate member in the Department of Computer Science at the University of Chicago and research professor in the Pritzker School of Molecular Engineering. Cellular phone service mostly relies on an entirely separate band of spectra, which providers license from the FCC through spectrum auctions, though that has shifted with the growing demand for cellular data and limited bandwidths.

When a cellular provider, such as T-Mobile or AT&T, licenses a spectrum band from the FCC, they reserve its exclusive use. As a result, networks operating on licensed bands experience little interference. This allows providers to establish fast and reliable service, but it comes at a cost.

GIT thought provoking corner

"If you don't go after what you want, you'll never have it. If you don't ask, the answer is always no. If you don't step forward, you're always in the same place."

– Nora Roberts

Did you know ……….

The majority of internet content exists on the Deep Web The average internet user can only hope to scratch the surface of available content. While a prominent Dutch researcher believes that 4.5 million websites are currently indexed by search engines, the internet extends far beyond this easily searchable content. Estimates regarding the size and scope of the Deep Web vary, but some researchers believe that it is at least 400 times larger than the surface internet.

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Career Guide

Career Advice

Question: "I keep hearing about something referred to as an elevator pitch. What is it, and why is it so important when I need to talk about myself?"
   - *Henry Upshire II*

Answer: We all need one, that's for sure! An elevator pitch is a brief summary of who you are and what talents you have. In formal interviews, interviewers may ask you to tell them about yourself. If you practice an effective elevator speech in advance, you'll avoid the tendency to ramble. Your clearly stated expressions will indicate that you are confident in your abilities. As you may have guessed from the name, not every elevator pitch happens in a formal setting. Be ready to talk about yourself wherever you happen to run into someone influential. You got this …… Best of luck!

Andrei

VETERNS, GET READY TO POWER YOUR TECH FUTURE AT GLOBAL IT

How do I use my Post 9/11 G.I Bill?

Global Information Technology is approved by the State of Michigan Proprietary School Education and the US Department of Veterans Affairs, to accept Veteran education benefits. These benefits may cover up to 100% of tuition and fees, and can provide a percentage stipend for your courseware, lodging, testing and other training-related costs as well.

For more information about your specific benefits in regards to your service, call 248-557-2480 to set up an appointment with one of our career advisor or visit https://www.global-itech.com/va-program.

A day in the life
Management Information Systems Director

[A management information systems director spearheads the implementation of software, equipment installation and other projects to improve the quality of a company's information systems.]

IT Managers plan, direct, or coordinate activities in such fields as electronic data processing, information systems, systems analysis, and computer programming. They also manage backup, security and user help systems.

Other tasks include:
- Direct daily operations of department, analyzing workflow, establishing priorities, developing standards and setting deadlines.
- Meet with department heads, managers, supervisors, vendors, and others, to solicit cooperation and resolve problems.
- Review project plans to plan and coordinate project activity.
- Assign and review the work of systems analysts, programmers, and other computer-related workers.
- Provide users with technical support for computer problems.
- Develop computer information resources, providing for data security and control, strategic computing, and disaster recovery.

We asked IT Managers how satisfied they are with their job. Here is what they said:

Job satisfaction
72%
of them said they were satisfied with their job and

Meaningful Work
49%
said they find that their job makes the world a better place or helps to make someone else's life better.

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Be patient: No News may NOT be bad news

If you didn't hear back from a hiring manager within a week or two after a job interview (a practice known as ghosting), most job seekers would automatically assume that they didn't get the job and move on.

Today however, weeks of radio silence doesn't necessarily mean that you're out of the running. "It's taking longer to gather feedback after interviews with everyone working remotely," Harris said. "Getting to the offer stage requires more patience than before."

4 Truths about working with recruiters (That they'll never tell you)

1. Recruiters Want You to Land a Job (For Better or Worse)

Most recruiters in staffing agencies are paid on commission, earning a fee based on your first year's salary when you get hired. (It doesn't come out of your pay. It's just an added expense for the company who hires you.)

This often works in your favor. Since their bonus is typically 20-25% of your base salary, they'll try to get you a great offer. The more money you make, the higher their rate will be, too.

However, if you don't land a job, they get paid nothing. So, if they can't think of other roles you'd be a fit for, they may encourage you to take a low-ball offer. (In their minds, they're helping you be realistic.)

To make sure you get what you're worth, have a chat with them *in advance* about the range you think is reasonable.

Then, if you're extended an offer that's lower than you deserve, say something like this: "I'm really excited about the position, but I was hoping the offer would come in higher. I would accept *on the spot* if we were able to get it $5,000 higher on the base salary."

Also, if you ever feel like you're being persuaded to take a role that's not right for you, say so. Don't let anyone—recruiters included—pressure you into taking a job you don't actually want.
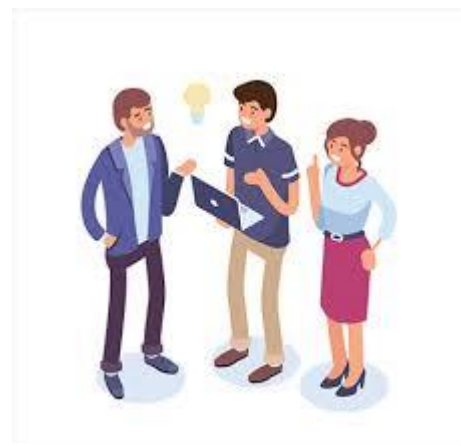
2. Recruiters Have to Put Company Interests First

Job seekers often refer to themselves as the "clients," and

recruiters are trained not to correct them. The truth is: The companies who hire headhunters are the people who foot the bills.

So, while helping people is the most satisfying part of our work, it's literally our job to put forth candidates who have a chance.

That sounds pretty cutthroat, but this can work in your favor. That's because many recruiters want to coach a candidate to be more appealing to hiring managers. So, take advantage of their suggestions! For example, if they recommend a resume change, it's because they think it's going to get you more interviews or increase the odds that their client responds positively.

3. Recruiters Can't Tell You Everything
Sometimes, recruiters are asked to look for things that have nothing to do with your professional qualifications. Some have been told that a certain team has too many males, and they need to hire

two women before we show them any more men. We don't like it, but it happens (and we can't tell you when it does).

So, if you're told a company isn't interested, don't assume it's because you're not great or your experience isn't attractive. There are several things that could've happened behind the scenes that aren't your fault.

One thing you can do is ask the recruiter if they can share any feedback. If they revisit the topic of changing your resume around, you'll know it had to do with your application. But if they say something reassuring about how, no, there's nothing you should be doing differently, it's a safe bet that you weren't turned down because you're doing something wrong.

4. Recruiters Don't Always Know What Your Job Involves
Recruiters get comfortable using the right lingo for your industry. But for the jobs out there that are more technical, there's a good chance they don't really know what you'd do each day.

However, the more he or she understands your field, the more likely they can find you a great-fitting job. So, I recommend asking questions like these to see how well they understand the space you work in:
- How long have you been recruiting in this industry? What about your firm?
- Why do you think my background is a fit for the job we're discussing?
- What are some of the biggest technical challenges this group is facing right now?
- What can you tell me about the backgrounds of the other people in this group?

The best recruiters, and the ones who are doing it for the "right" reasons, will stand out because they know the history of each company they work with, the hiring manger's story, and so on.

So, ask a lot of questions, and trust your gut in terms of how comfortable they seem when answering.