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AT Computer Science

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ChatGPT Investigation

Questions:

1. When is it appropriate to use ChatGPTs coding feature in this class? As a hint, the answer is NOT “never”. It is important to integrate new technology to advance not disrupt our learning, so please put some thought into how we can accomplish this.

In general, I feel like the potential for ChatGPT and other generative AI as a means for brainstorming or learning is incredibly potent. Whether it is for ATCS, other academic classes, or other reasons, ChatGPT can spit out a magnitude of ideas incredibly quickly. Personally, I’ve used ChatGPT’s ability to list ideas as a means to generate sample topics for my AP Language Editorial Take-Home assignment, and the topic I settled on – the overdigitalization of household appliances – came from investigating my passions alongside ChatGPT. That being said, what I feel like AI is not a substitute for is the actual learning. Using AI to generate code, or anything for that matter, as means to an end, means that you are using AI to complete an assignment without actually completing it. This completely sidesteps the purpose of school in the first place, and ensures that you won’t academically develop. To draw a parallel to existing computer

science resources, it's like copying all of your code from Stack Overflow: it might work for an assignment, but you won't be able to apply that knowledge to novel problems whatsoever.

2. Do you think ChatGPT will disrupt the software engineering industry? Why or why not?

I don't think ChatGPT will majorly disrupt the software engineering industry due to its limited capacity in terms of the amount of code it can read and produce, frequent errors, and generalizations of computer science principles. However, I think that ChatGPT is a prologue to larger and far more capable AI's, which will inevitably reduce that impact a computer scientist can have. Ultimately, I think software engineers will be replaced by a single software engineer managing an AI, rather than a team of software engineers working together. The future AI seems way too knowledgeable and way too quick for this not to be the case.