

Computer Science Dual Enrollment Students -

I've had a few students ask about things to work on over the summer, to keep coding until the fall and further their skills. Here are a wide variety of options to check out. All of these are optional and FREE, but some require you to create an account:

- **Learn to type!** Ok, I know this isn't CS, but knowing the proper way to type can save you time in EVERY class! <https://www.typing.com/student/lessons>
- **CodeDay** is hosting a "Virtual Internship". You will work with a mentor and create a real-world project. There is a track for students who have just completed APCS A. Dates are July 6 – July 31, but sign-ups are happening now! <https://labs.codeday.org/>
- **Khan Academy** has MANY topics to dive into... from algorithms, to cryptography, to information theory. Check them out starting here: <https://www.khanacademy.org/computing/computer-science>
- **USACO** provides training problems similar to what you would see in programming contests (For those that are interested, dual-enrollment students can attend programming competitions next year). We'll do some of the problems on this site in the fall in our dual-enrollment class, but feel free to get a head start. You do need to create an account: <https://train.usaco.org/>
- **Greenfoot** and **Alice** are two tools used to teach Computer programming with a graphical emphasis. Greenfoot allows you to create interactive graphical games, while Alice allows you to create 3D animations. Search YouTube for examples of fun projects that you can create with both. Both use java, but since you already know SOME java, you can jump into creating cool projects rather quickly once you see how the tools work. Both sites provide activities and lessons, but search the internet for many more using each tool. Personally, I love Alice.
 - <https://www.greenfoot.org/door>
 - <http://www.alice.org/get-alice/alice-3/>

Hope that helps! Feel free to email me any time over the summer if you have any questions, or just to let me know how you're doing!

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