

Coding and art are not usually synonymous, in fact, they are usually thought as having nothing in common. The apps we use have many purposes: they make our lives easier and entertain us, while others save our lives. Some may include some creativity but coding can also be the means to creativity and serve as another opportunity to pursue your passion.

Throughout this Expedition, you will LEAD YOUR LEARNING by fully engaging with the resources and activities. You will be asked to -



- **REFLECT** about your skills, learning goals, and purpose
- **STRETCH** your knowledge and skills through active learning
- **INNOVATE** and iterate solutions for real-world challenges
- **SHOWCASE** your innovations and learning in a dynamic way

We encourage you to utilize our [Expeditions Idea Book](#) as you navigate this Expedition as a resource and space to get your creativity flowing, organize your ideas and research, and share your innovations and reflections.



Every so often you may see this briefcase icon. That indicates an opportune time to have a conversation with a mentor or local business leader to discuss industry trends, ideate solutions, solicit feedback, and/or present your project. (Speak to your educator if you need support making contact.)

REFLECT

As you watch [the video](#), think deeply about these questions:



- What is a passion you have? What would it look like to use this passion as a career or to launch a business?
- What ways can creative coding help you express yourself?
- What skills or traits would help you succeed in a career in creative coding?

WHAT WOULD A CAREER IN CREATIVE CODING LOOKING LIKE?



There are many career choices to choose from. You can be a 3D animator and design characters and illustrations or program robots and other devices as an AI specialist. Another option is a front-end developer who designs the visual presentation of a website. Game designers collaborate with others to create games for consoles, computers, and mobile devices. These are just a few of the options!



Whose expertise can you tap into to learn more about this career? Could they participate in an informational interview with you and your peers or serve as a mentor?

HOW TO LAUNCH YOUR CAREER IN CREATIVE CODING

- Research creative doing to learn more and identify a potential career
- Learn [Processing](#), a free graphical library and integrated development environment
- Create and publish a project

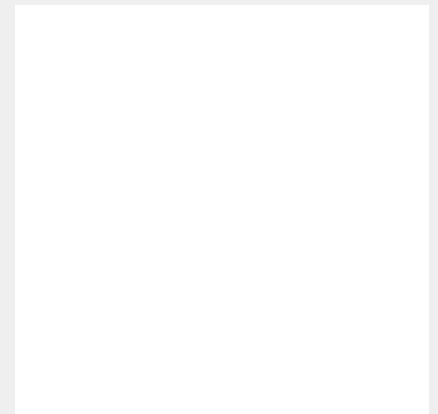
Check out these Creative Coding Creations



Future by Sean Zellmer.
Follow him on Instagram at [@lejeunerenard](#)



Horizon Forbidden West won the Digital Foundry's Best Graphics for 2022



[Soundraw](#) is an AI music generator that uses royalty free music.

STRETCH

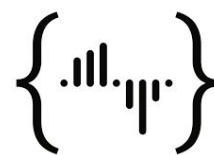
Expand your knowledge and skills by trying some of these activities:

- Create [Your First Sketch](#) with this p5.js project. p5.js is a free JavaScript library for creative coding that is made for all.
- Mix your own music using the built-in curriculum in [EarSketch](#) using Python, JavaScript or coding.
- Explore [Blender](#), a free software to make 3D computer graphics. You may even want to download and explore the course "[Scripting for Artists](#)"
- Find other resources that relate to your interests in Creative Coding.

Meet Shamel Washington, a creative director who's worked with or over 12 years, Shamel worked across disciplines connecting storytelling, problem-solving, and design with category expertise spanning fashion, pharma, energy, and entertainment. He's led creative teams, helped ignite critical social conversations, and developed branding for Lexus, Verizon, And1, Reebok, and Sean John.



OPPORTUNITY ALERT!



EarSketch

Want to mix your own music for \$? Then, check this out!

Through [Your Voice is Power](#) you can learn about computer science, explore music and social change and compete in a national remix competition. No experience is necessary to enter. Remixed song submissions will be judged based on music, code and message to promote equity by a panel of industry professionals.





INNOVATE

Identify a problem in your community (school, local, state, or global) or this industry, then innovate ways solve it.

<p>DEVELOP A PRODUCT</p>	<p>Create a new product (digital or non-digital) that would solve the problem you have identified. (Consider designing, wireframing, or prototyping using platforms like Lucid, ProtoPie, or Figma, or code an app in MIT App Inventor.)</p>
<p>FIX A FLAW</p>	<p>Perform some user testing on an existing product and think of ways to remix and improve it for diverse users. Is there a practice or product that has a flaw you'd like to fix? Consider diverse users, then use that feedback to improve and recreate a product.</p>
<p>BE A CHANGE-MAKER</p>	<p>Create a movement at your school or community to amplify this industry or the skills sets needed to succeed in this field. You can start a chapter for a Career & Technical Student Organization (CTSO) or professional organization related to this field, host a college/career fair or local competition to highlight this industry. How about hosting a workshop for your local elementary or middle school? The possibilities are endless!</p>



PRO TIPS:

- If the choices above don't appeal to you, you can create-your-own or generate ideas by exploring hackathon sites like [hackclub](#) or [devpost](#).
- As you ideate, consider using [customer journey mapping](#).



Is there a mentor or industry partner who can discuss the Engineering Design Process or UX Design Process to support your innovation? How can you gather mentor feedback as you iterate and innovate?



SHOWCASE

Once you complete your innovation, share your learning with the with an audience in one or more of these ways:

Why not plan a showcase where you and your peers can share presentations with the whole school, at a parent night, or for a panel of industry professionals?



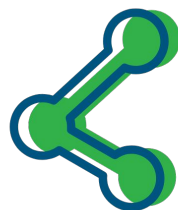
DIGITAL PORTFOLIO OR SITE	Create, code, or build a simple webpage to highlight your innovation, project, and learning journey. Consider bulb digital portfolios, Replit, GitHub, Google Sites, or Wix. Once it's developed, present it to an audience, and solicit feedback.
ONLINE MEDIA	Create a blog, vlog, or social media campaign (LinkedIn, YouTube, etc.) to highlight your innovation, project, and learning journey. Feel free to tag @nafcareeracads.
PITCH IT!	Pretend your audience is a group of investors. Pitch your innovation to them, sharing what you learned in the process. Allow for a Q&A, then solicit feedback on the quality of your project and/or pitch.

PRO TIPS:



- Level up your project by entering a school or district competition or challenge. (Think the science fair, CTSOs, hackathons, etc.)
- Not interested in options from our Showcase menu? You can present your creations in a format of your choosing.

STUDENTS, SHARE YOUR INNOVATION!



NAF would love to see your creation! After you get your educator's permission, submit yours [HERE](#). We may highlight you on social media!

(We WILL NOT share your work without your educator's and your approval.)