



ACES

Computer Science Pathway



What is the **Computer Science Pathway**?

A pathway for students to take that gives them access to an assortment of opportunities in the world of engineering.

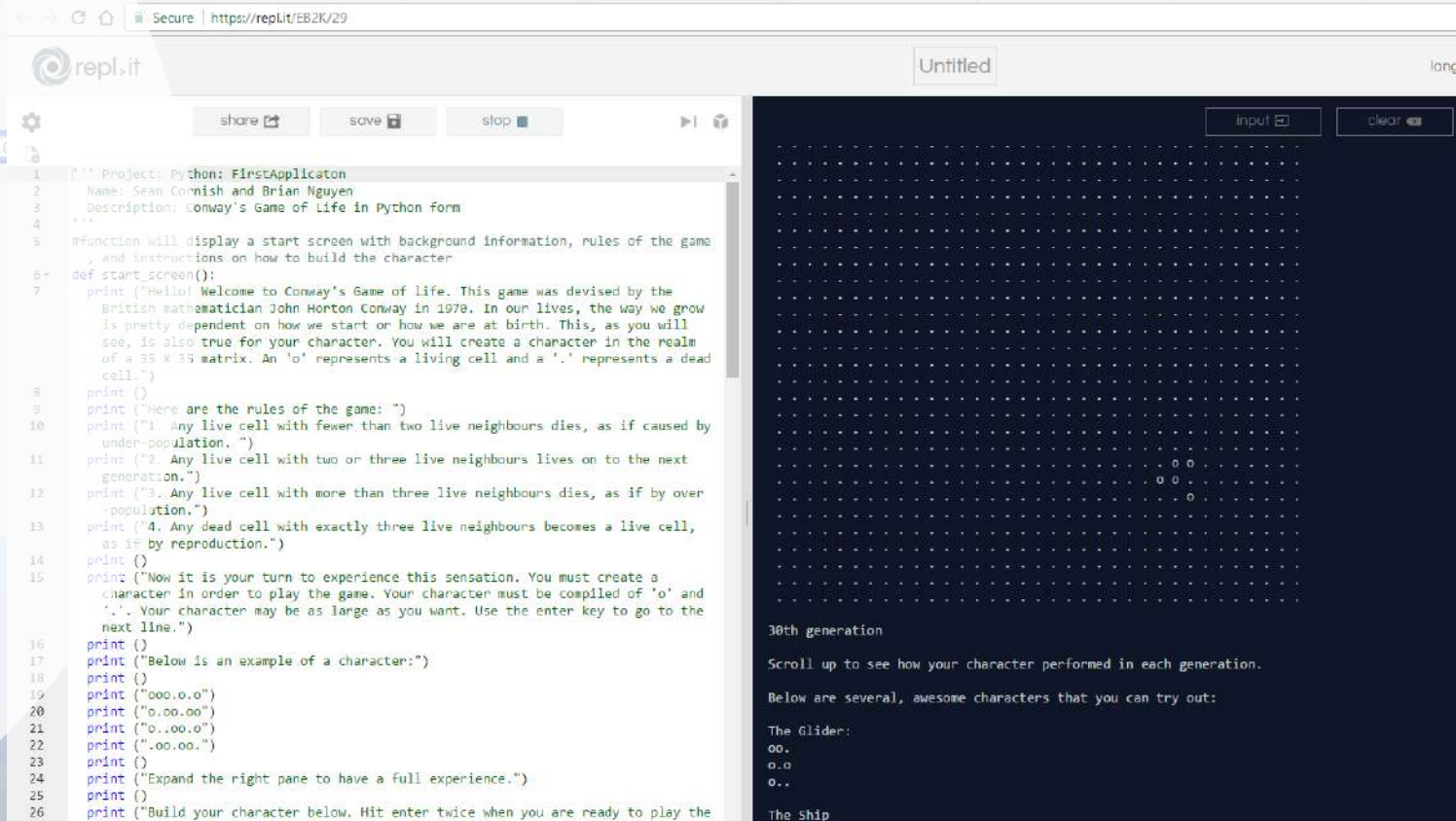
Program Features

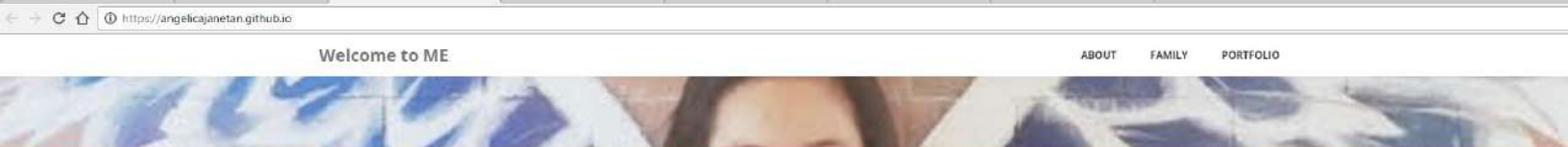
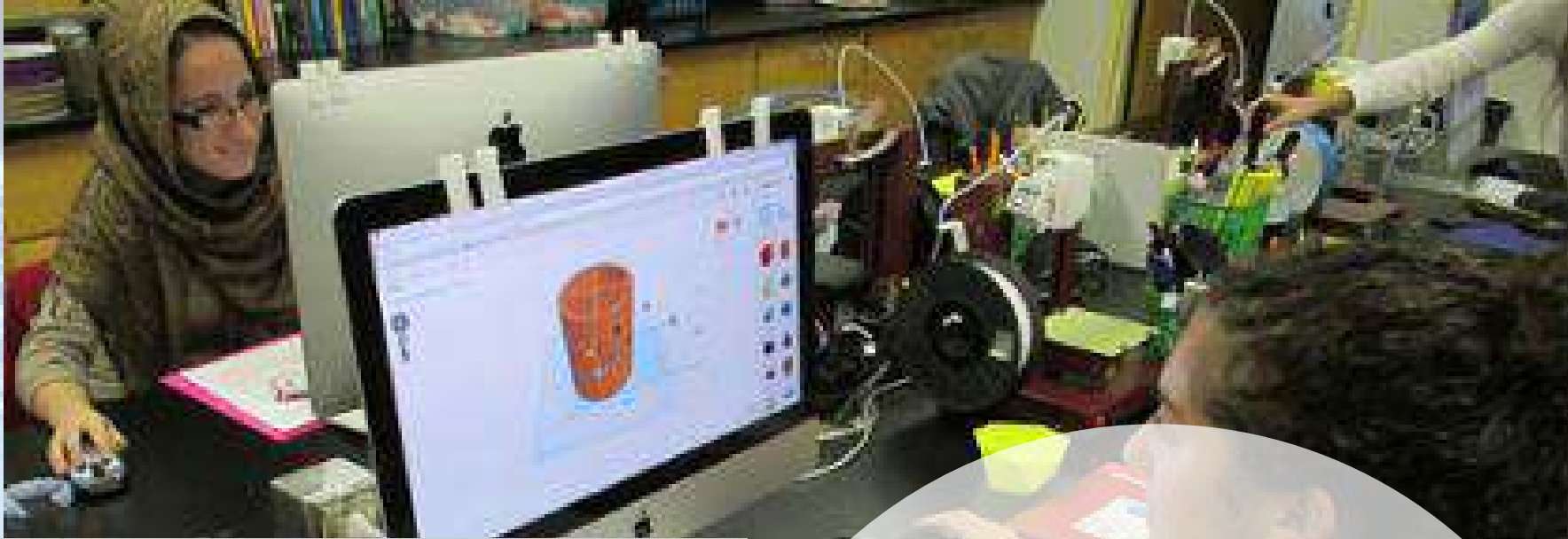
- UC approved courses
- AP/PLTW recognition
- Project based learning
- College credit based on EoC or AP exams
- College Recognition
- Interdisciplinary projects



Real World Applications

- Apply computer science and programming to real world situations
- Design computer applications and websites





ABOUT: Creator

18. Female. 5'3"

Hey! I'm Angelica Jane Tan, a senior here at Ayala High School. I first moved to Chino Hills around 3rd grade, and have been moving to different houses within the city ever since. I'm in the Ayala Percussion Ensemble, both indoor and outdoor, as shown by the picture to the left. This is my 4th, and possibly last, year as a mallet player.

I'm fairly new to computer science, and the closest I've gotten to coding anything is messing around the HTML code of my tumblr theme...(link to my tumblr at the bottom of page). However, I've probably never been so excited to go to a class as I have with this one. So, I'm excited to see how this will all go(-.

Project Based Learning

- Students learn computer science concepts through hands-on projects



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ACES Core Courses:

Intro to Computer Science (Year 1): Students will learn basic programming to create apps and develop websites, and learn how to make computers work together to put their design into practice.

AP Computer Science Principles (APCSP, Year 2) An overview for beginners that explores fundamental areas of CS: **game design**, simulation, **programming**, data science, **cybersecurity**, the web, and **mobile program design**. Can receive college credit with an AP exam score of 3 or better.



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AP Computer Science Applications (APCSA, Year 3): Students learn to code in **Java**, master **advanced algorithms**, and will **develop their own apps** as a CS capstone. College credit upon passage of the AP exam with a 3 or better.

Computer Science Enrichment (Year 4): Students will take an enrichment class (TBD) to apply the professional skills they have developed to enrich their understanding of computer science and programming.

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