

Fighting Technophobia One Byte at a Time

SUPERHERO TRAINING

aka TCA Upper School Computer Science 2023-24

PYTHON, APCS/JAVA, WEB DESIGN/JAVASCRIPT PROGRAMMING



Our Superpowers?

We talk to machines in their language and get them to do our bidding! We solve **mysteries** by asking the right questions and finding our own answers. You might say we are **digital detectives!**

Our Mentor?

Kent Pendleton is a **37-year TCA veteran**, passionate about learning, technology and math who hopes to make us feel likewise!

kpendleton@trinitychristian.org

Our Lair?

<https://www.technovictools.com>

<https://www.codehs.com>



*“Play is the highest form of research”
“Imagination is more important than knowledge”*

~Albert Einstein

STRANGER THINKS

Honors Python3

- Entry Point into the world of programming and coding
- Features console and graphics approaches to learning
- “Learn one language, learn them all”
- Emphasis is on program structure, variable control and manipulation, decision making, random events, repetition structures and **functions**
- Object Oriented Programming, a foundation for nearly all software, is showcased

AP Computer Science A - Java

- Large-scale projects with traditional AP curriculum
- AP Test simulations

CS Intern

- Learn best by helping others
- Solidify past training
- Extend current knowledge base

H. Game Design – JavaScript, Processing

- CodeHS, VSCode
- Problem solving and debugging
- Simulation
- User-friendly interactivity

H. Web Design/Computing

- HTML, CSS, JavaScript, Bootstrap5 – the Fantastic Four!
- Foundational to Game Design and some mobile platforms
- Emphasis on responsive design

Evaluation:

- Attitude/Participation: 10%
- Homework/Classwork: 15%
- Assignments: 20%
- Minor Grade: 25%
- Major Grades: 30%

We ♥ cooperative learning, and a R.A.D.I.C.A.L. attitude



CodeHS

approach



Project Applications

