Ding Wen (Kenny) Han

EDUCATION

Bachelors of Science in Mathematics and Computer Science　2021 – 2024
University Of Pittsburgh　Pittsburgh
GPA: 3.9
Every Semester Dean's List

PROJECTS

Ordinary Differential DFEILD Solution Grapher (1st Place)　2022
SteelHacks Hackthon 2022 Winner
Created a website for solution graphing ODEs with an improved Euler's Method, 4/5th Order
Dormand-Prince, of numerical approximations.
- Created a front end proof of concept that has user enter in differential equation and initial value
  and graphs the solution using JS for computations

Fish Aquarium　2021
- Application coded in C#, I created fish object classes that have hunger, size, destination, current
  location, etc.
- Right clicks spawn randomized fish (apperance, size, speed, etc) with each tick calculating
  optimal trigonometric path for smooth swimming
- Fish seek food if hungry, food can be dropped from top of tank with a button
- If hunger is zero, fish floats to top of water and the instance of fish is deleted

ASCII Towers of Hanoi　2020
- Towers of Hanoi game created in C#: I created a peg class that stores ring according to game
  rules
- Lets user move rings with ASCII art from the three pegs
- Solution, ideal moves, and minimum number of moves show at the end of the game

RELEVANT CLASSES

Mathematics: Linear algebra, Theoretical Mathematics (Real Analysis), Analytic Geometry and Calculus 3,
Ordinary Differential Equations

Computer Science: Algorithms and Data Structures I and II, Practical AI, Theoretical CS, Discrete Mathematics,
Systems Software, Assembly Language

LANGUAGES

Java, Python, C#, C/C++, Assembly : RISC-V/MIPS and x86, HTML, CSS, JS

EXPERIENCE

Data Structures and Algorithms (CS 445) TA
University of Pittsburgh
Teach recitations and hold office hours for teaching data structures and algorithms from linked
lists, tree maps and to hash maps with a focus on time and space complexity.

Mathematics Tutor　2021 –
University of Pittsburgh　Present
- Tutors students any math class listed above by appointment
- I approach teaching with a combination of understanding math definitions, promoting natural
  intuition, and forming allegories to familiar math concepts which leads students to fully
  understand new ideas and the process of problem solving

Chess Teacher and Chinese Language Teacher Assistant　2016 – 2019
Newtown-Yardley Chinese School
- Worked with Chinese teachers to help kids, assign homework and grade quizzes
- Ran an after-school chess class, teaching, organizing and helping student with chess