Sophia Wood

Systems Engineer, Math Specialist, Random Task Penguin (She/Her)

Salem, Oregon
sophia@fractalkitty.com

EXPERIENCE

Senior Producer at Brilliant.org   2022 - PRESENT

- Lead creation and coordination among cross-functional teams to produce high-quality math and CS educational content
- Provide innovative ideas for new content, approaches, and interactive design including courses in algebra, coding, and games such as Halfsies

Coeditor for NCTM - MTLT FLM Journal   2021 - 2024

- Edit, provide feedback and solicit for manuscripts focused on the intersection of art, music, and experiences tied to a "love of math"

Math Specialist at SRCS   2018 - PRESENT

- On call support and instruction for math, coding, and STEM
- Curriculum research, syllabus development, and coordination

Instructor at Village Home   2016 - PRESENT

- Facilitating classes in STEM, coding, math, and art. Examples: kinetic art, maker projects, STEM RPG, physics (all hands on), science in fiction, engineering, and more

Freelance   2006 - 2023

- Engineering consultant work for multiple toy companies
- Tutoring and instruction

Systems Engineer for Northrop Grumman   2003 - 2014

- Lead for flexible M&S framework/analysis
- Performance analyst for various programs involving flight test, sensors data, international business capture, and proposals.
- Tools lead for models, simulation, analysis, and test
- Software Certification Lead for analysis team
- Program trade study process manager (CMMI-5)
- Specialty support for Survivability , RAM&T, ICDs, root cause analysis, and mission critical observation investigation and solutions

SKILLS

Creative Thinker
Pedagogical Intuition
Interactive Design
P5.js
Python
Some HTML/CSS

LEARNING/HOBBIES

Elm/Functional programming
Generative art
Math & Science
Data play
Birdwatching
Fiber Art
Service Projects

EDUCATION

Worcester State College
BS in Mathematics

LINKS

Blog: fractalkitty.com
Codepen: codepen.io/fractalkitty
SOHaiku: sohaiku.art

One day projects:
Portholes: Porthales.art
Game: sumFib.com
Poetry: ofAtoms.art

A NOTE

I learn fast.
I love to think.
I enjoy working in teams.
I'm a self-directed, lifelong learner