

ANDREW VELLA

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EDUCATION

Skidmore College | *Saratoga Springs, NY*

Graduated March 2022

Bachelor of Arts in Computer Science

- *Relevant Coursework:* Operating Systems, Computer Networks, Computability, Linear Algebra, Computer Organization, Programming Languages, Computer Science I & II, Intro to Python and Data Science

WORK EXPERIENCE

THE CODING SPACE | *Teacher* | *New York, NY*

November 2020 – April 2021

- Taught over 15 children ages 6 to 14 years (in smaller groups of 3 to 5 students) at The Coding Space, an afterschool and summer program offering elective courses in the fundamentals of computer programming.
- Authored two “un-tutorials” (projects at a specific level of difficulty with socratic guidance), designed for students to practice and develop newly learned skills during class activity. Topics included: Functions, Variables, Loops, Control flow
- Guided students in Scratch, Python, and WoofJS (a language for transitioning from Scratch to JavaScript).

MARYMOUNT SCHOOL OF NEW YORK | *Teacher's Assistant* | *New York, NY*

June 2021 – July 2021

- Teacher's Assistant for Advanced Drama III, a course geared toward preparing students for the stage.
- Supervised students ages 12 to 16 years; lead theater activities and improv games.
- Designed the playbill for the school production, *Into the Woods*.

STAND UP AND LEARN | *Volunteer* | *Nantucket, MA*

March 2019

- Worked at a stand-up comedy workshop for children ages 8 to 15 years, with the goal of instilling confidence and public speaking skills in the students such that they could perform a routine on a stage, unaided.
- Assisted head instructor with supervising students and developing comedic routines in tandem with professional comedians.

FREELANCE | *Tech Support Personnel* | *Long Island, NY*

Summer 2020

- Provided technical support for elderly neighbors during the Covid-19 pandemic.
- Assisted in setting up devices, navigating the Mac Operating System, installing software updates, guided user interface tours, setting up accounts, downloading apps, general troubleshooting.

BROOKLYN COLLEGE | *Guest Speaker* | *Brooklyn, NY*

Spring 2022

- Two-time guest speaker for Dr. Magdalena Oledzka's class, “Motor Development and Learning” at Brooklyn College.
- Spoke about my lived experiences and conducted Q&A.

FREELANCE | *Dog Sitter* | *New York, NY*

Summer 2019

- Cared for elderly dogs, including comfort, hygiene, and routine walks.

PROJECTS

KEYBIRD | *Python*

2022

- A minimalistic password manager written in Python.
- Generates sixteen character passwords using two user-selected keywords and a hashing algorithm.
- Passwords are stored locally and can be used for a variety of accounts.
- Designed to be simple to use, without tying users to a specific browser or profile.

BEDTIME LANGUAGE AND INTERPRETER | *Java*

2021

- Developed and implemented an Esoteric Programming Language, specified on the Esolangs Wiki.
- A language designed to interpret bedtime stories as computer programs.
- A repl is available to try the language out.

NOVISC VIDEO GAME | *C# / Unity*

2023 – TBD

- This video game is early in development; I am currently finishing the sprite sheets and screen mockups so I can continue working on the project with finished graphics.
- The completed project will be a video game made with Unity, a *Galaga* style spaceship combat game for the fans of my childhood Scratch projects.

SKILLS & INTERESTS

- Languages: Primarily Imperative, C Style Languages such as Java, Python, C#, Processing3, Scratch
- Esolang development. Developing languages for learning to code.
- Teaching programming fundamentals (to kids).
- Video game design and development, including music and sprite work.
- Bird-watching (see @littleglowingbirds on Instagram!)