

Gabriel Shiu

Lexington, MA

Education:

Lexington High School, Lexington, MA (9th-12th, in progress) — 4.15 GPA; National Honor Society member

Experience:

Einstein's Workshop, Burlington, MA – Summer Mentor (Summer 2021)

- Taught Minecraft modding, Processing, BlocksCAD, LEGO WeDo, physics, Minecraft building, crafts
- Engaged campers in fun activities, cultivating relationships with and between them

The Math Club Lexington, Lexington, MA – Website Manager (Winter 2019—present)

- Built [website](#) over 3 months using WordPress during school year and maintained it—informed parents, integrated with email list sign-up, set up downloadable registration form—reduced employer workload
- Learned WordPress usage without previous knowledge

The Math Club Lexington, Lexington, MA – Teaching Assistant (Fall 2018—present)

- Led struggling students through problems
- Ran Q&A zoom sessions, developed homework problems, and created solution videos from scratch
- Showed younger TAs what to do—lessened teacher burden

Penguin Coding School, Lexington, MA – Teaching Assistant (Fall 2018—Spring 2020)

- Taught Scratch, HTML, and FLL (MicroPython and EV3)
- Coached a first-time FLL team during competitions using prior personal FLL champion team experience
- Represented the school at various town-organized fairs, attracted new customers

Skills:

- Teaching kids (Programming, Robotics, Math, Music, etc.)
- Programming (Python, Java, C++, Javascript, Lua, Scratch, EV3)
- Game development (Godot, Love2D)
- Web design (WordPress)
- Basic data science

Completed online courses:

- Machine Learning by Stanford (Coursera)
- Python, Intro to ML, Intermediate ML, Data Visualization, Pandas, Feature Engineering (Kaggle)
- Code a 2D Platform Game Character with Godot by GDQuest (Mavenseed)
- CS50's Introduction to Game Development with Lua (edX)

Community involvement:

Notelove, Boston, MA – Volunteer Piano Teacher (January 2021—present)

Lexington High School, Lexington, MA

- Hasting STEM Club experiment creator for elementary school students (November 2020—Spring 2021)
- Peer tutor (December 2020—January 2021)

Grace Chapel, Lexington, MA

- High school ministry worship team piano player & cafe volunteer (Fall 2019—Spring 2020)
- Vacation Bible School summer game station volunteer (2018), crew leader (2019, 2020)

Lexington Interfaith Food Pantry & Lex Eat Together, Lexington, MA – Volunteer (Fall 2018—Spring 2019)