

Raising a Coder in an Educational Maelstrom: Advice and Lessons Learned

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HI, I'M SETH

- CIO at DRW
- Family man
- Passionate about technology education



WHAT I'M GOING TO TALK ABOUT

Kids need better
coding education



My experiences
with my kids



Recommendations



WHY SHOULD WE TEACH KIDS HOW TO CODE?

Job market



Life skills



**Lack of good standardized
education programs**



BEFORE YOU START

- Basic education skills
- Support system
- Gear
- Understand your kid



IZZY

MEET AIDAN

- Early coder
- App developer
- First Lego League programmer
- C#/Unity developer
- Learning C++/Unreal



HOW IT BEGAN

- We started with Scratch



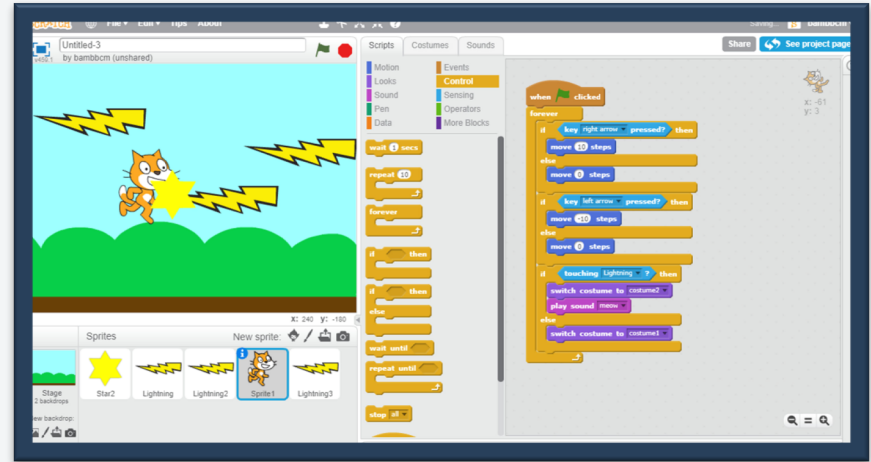
HOW IT BEGAN

- We started with Scratch
- Actually – we started with gaming!



HOW IT BEGAN

- We started with Scratch
- Actually – we started with gaming!
- Okay, back to Scratch.



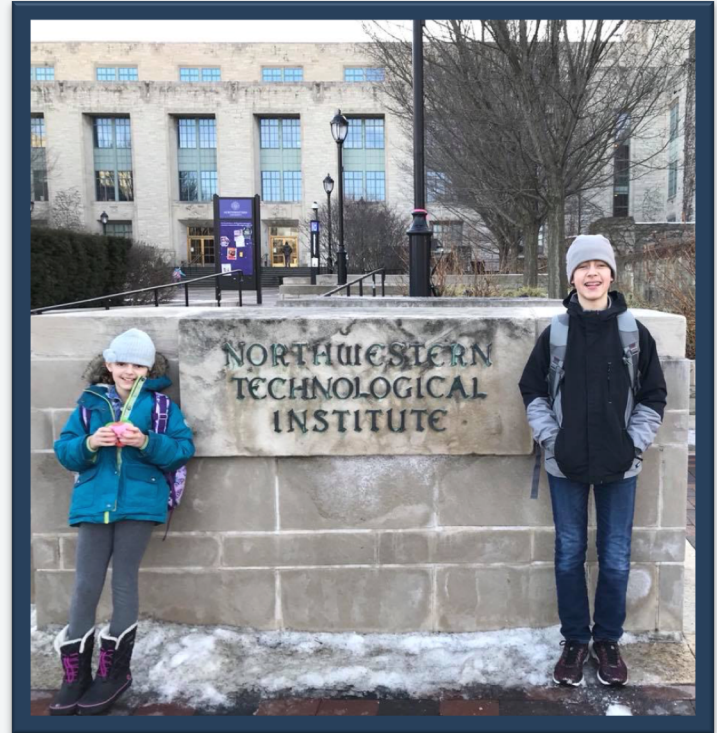
MINECRAFT

- Playing with Dad
- The keyboard
- Hexxit!
- Aidan's first mod



REINFORCING TRAINING

- Center for Talent & Development
- IDTech



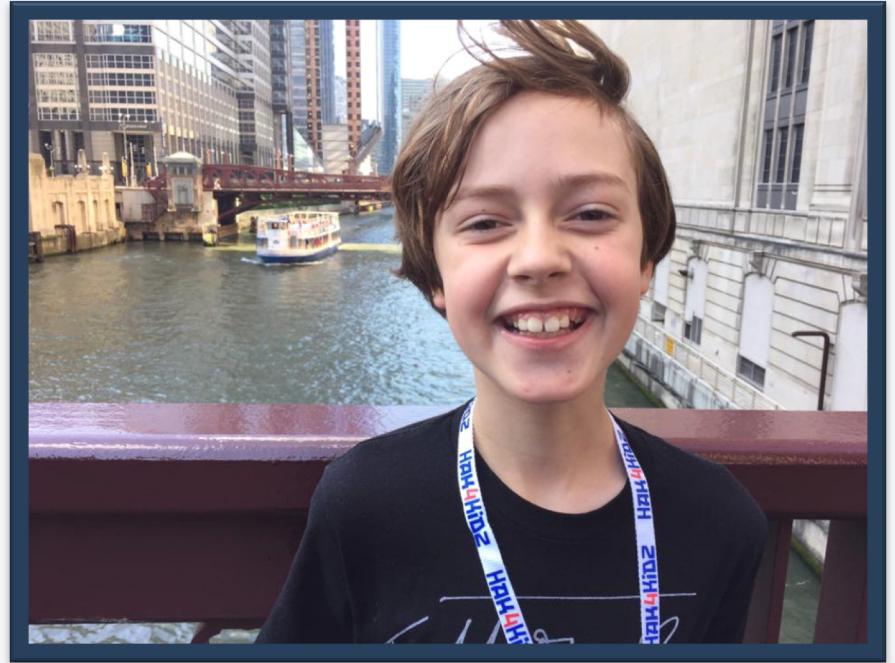
TECH TOOLS

- Raspberry Pi
- 3D Printer
- EV3



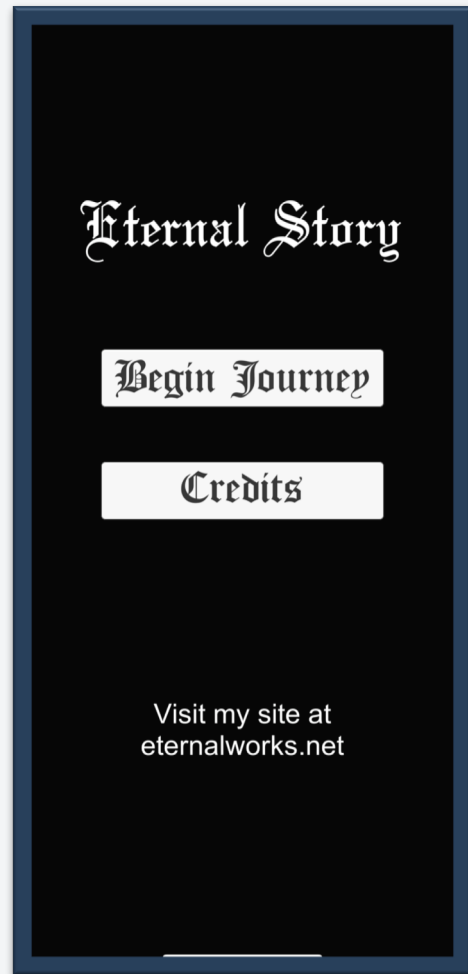
SELF-PACED CODING EDUCATION

- Youth digital
- Hak4Kidz
- Codecademy
- Udemy



ETERNAL STORY

- His idea
- Written in C#/Unity
- Help!

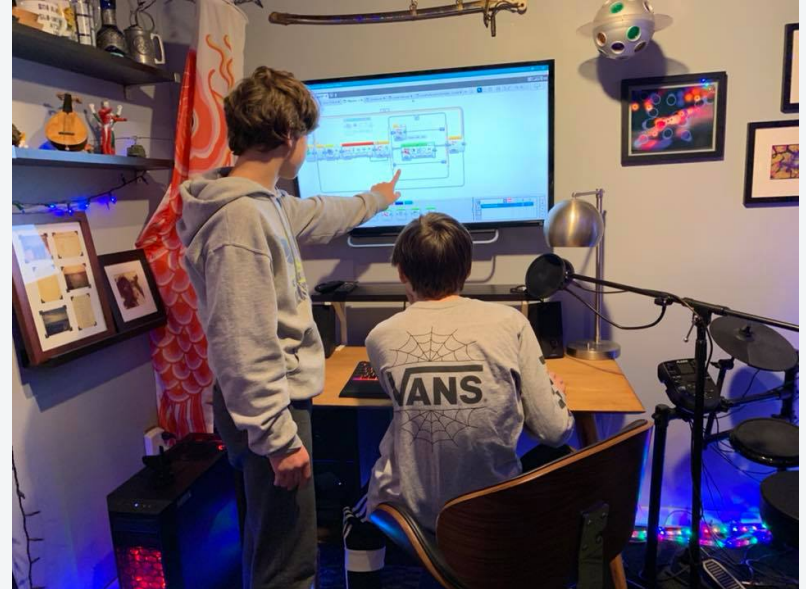


FIRST LEGO LEAGUE

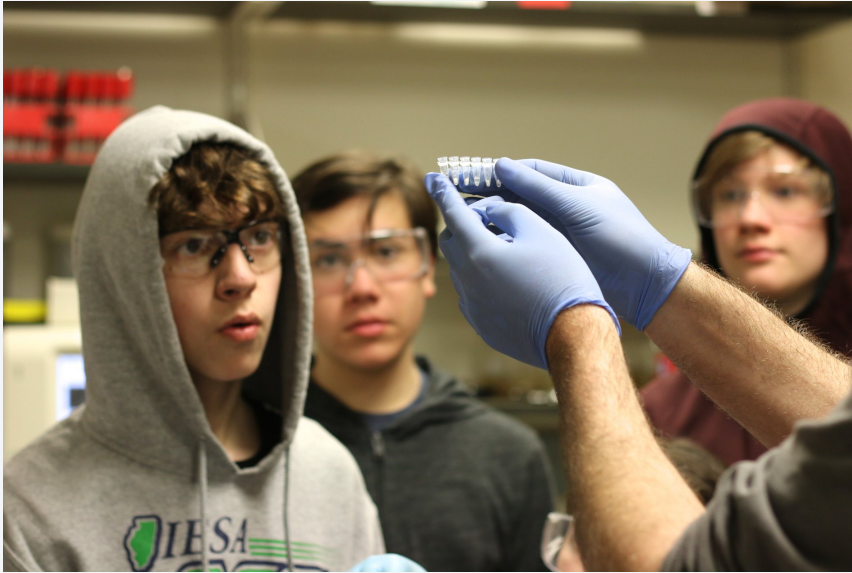
- Robots
- Coding
- Research



FIRST LEGO LEAGUE



FIRST LEGO LEAGUE



TAKEAWAYS

- Get involved
- Teach self-study skills
- Get them exposure
- Have a project



ONLINE RESOURCES

- <https://code.org>
- <https://makecode.com>
- <https://www.apexlearning.com/technology-courses>
- <https://scratch.mit.edu>



ONLINE RESOURCES

- <https://www.khanacademy.org>
- Udemy
- Udacity



CONFERENCES AND CAMPS

- <http://www.hak4kidz.com>
- <https://www.ctd.northwestern.edu>
- <https://www.idtech.com>



ORGANIZATION TOOLS

- Getting Things Done
- Evernote
- Todoist



OTHER RESOURCES

- Kano kit
- Super Scratch Programming Adventures



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