

# Michael Dunn-O'Connor

Software Engineer,  
EdTech

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I design software that drives student engagement and expands educational opportunities.

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Malden, Massachusetts

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## Languages

- HTML
- CSS
- JavaScript
- Python
- SQL
- Java
- Swift
- GML

## Libraries / Tools

- GitHub
- Visual Studio Code
- Fetch API
- React.js
- P5.js
- Django
- MongoDB
- Game Maker Studio

## Skills

- Curriculum Design
- Standard-alignment
- Differentiation
- Project-based Learning
- Sheltered English Immersion

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## Professional Development

Project Lead the Way - AP  
Computer Science Certification  
2020, Virtual

Teach for America -  
Massachusetts Teacher Institute  
2014, Lowell MA

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## Experience

### General Assembly / Software Engineering Immersive

July 2021 - October 2021

Designed full-stack web applications independently and as part of a design team.

Projects included:

- *Area Model Farm*: An interactive math tool for visualizing the area model method of multiplication.
- *<nav-cs>*: A tool for students to compare computer science degree programs and find the one that is right for them.

### Lawrence High School / Technology Teacher

2017 - 2021, Lawrence MA

Designed and implemented Computer Science and Web Development curriculum with an emphasis on project-based learning and authentic performance tasks. Founded after-school programs for app design and game development.

### Upperline Code / instructor

Summer 2018 & Summer 2019, New York NY

Led App Design and Web Development Courses for high school students with a focus on iterative design and rapid product deployment..

### Community Day Arlington / STEM Interventionist

2016 - 2017, Lawrence MA

Taught an NGSS-aligned STEM curriculum and designed a course to make app development accessible to elementary school students.

### UP Academy Holland / Science Teacher

2014 - 2016, Dorchester MA

Taught an NGSS-aligned Science curriculum and founded STEM Club, an after-school program for students to explore the engineering design process.

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## Education

### Boston University / Master of Education - Curriculum and Teaching

December 2017, Boston MA

### UMass Amherst / Bachelor of Arts - Social Thought and Political Economy

December 2011, Amherst MA