

# Michael Dunn-O'Connor

## Software Engineer, EdTech

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

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### Languages

- Python
- JavaScript
- SQL
- Java
- Swift

### Libraries / Tools

- React.js
- Django
- REST Framework
- MongoDB
- JavaScript Fetch API
- Node.js
- Axios
- Game Maker Studio

### Skills

- Agile development
- Curriculum design
- Standards-alignment
- Differentiation
- Project-based learning

### Software Development Projects

*Data Collective:* Citizen Science platform for accessible data entry and visualization. Full Stack application built with React.js, Python, and Django REST Framework.

*Feedback Loop:* Social platform for developers looking to connect with peers. Full Stack application built with MongoDB, Express, React.js, and Node.js.

*Area Model Farm:* Interactive math tool for visualizing the area model method of multiplication. Responsive web app featuring procedurally generated math problems.

<nav-cs>: A tool for students to compare computer science degree programs and find the one that is right for them. Fetches the most recent data from College Scorecard API.

### Experience

#### General Assembly / Software Engineering Immersive

July 2021 - October 2021

Designed full-stack web applications independently and as part of a design team. Led project planning as scrum master and visually tracked project progress with a kanban board. Developed original projects in React.js, Node.js, Python, MongoDB, and Django.

#### Lawrence High School / Computer Science 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. Taught object-oriented programming in Python and Java. Founded afterschool app design club.

#### 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. Coached new instructors in lesson planning, instruction, and building classroom culture.

#### Teach For America / Corps Member Advisor

Summer 2017, Lawrence MA

Coached first-year teachers in lesson planning, instruction, and assessment. Provided targeted feedback on instructional materials and practices. Supported teachers in implementing feedback and tracking their own improvement.

### Professional Development

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

Teach for America - MA Teacher  
Institute  
2014, Lowell MA

### 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