

# Connor Mahlbacher

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## Education

*Bachelor of Science* College of William and Mary 2016-2020

- Graduated Cum Laude with 3.61 GPA in May 2020
- Major in Computer Science; second major in Public Policy
- **Relevant Coursework:** Software Development, Computer Architecture, Algorithms, Programming Languages, Network Design, Machine Learning, Operating Systems

*Master of Arts in Teaching* University of Louisville 2020-2022

- Concentration in Secondary Mathematics Education - 3.4 GPA

## Projects

### *Personal Projects*

- Soccer simulation program - Wrote a program from scratch using object-oriented programming in Python, a basic graphical interface, and local data storage that takes custom user input
- MBTA display - Built app that used public APIs to provide real-time data to users on request

### *School Projects*

- Stood up simple web browser using sockets with TCP to display web pages locally
- Implemented machine learning algorithms to make predictions given a large dataset
- Augmented a game application by adding maze-solving algorithms and converted it into a working Android mobile app while tracking changes with Git

### *Work Projects*

- Created a girls soccer team at Southern High School, starting with 2 players at first practice, ending the year with 16 and led team to school's first victory in five years
- Coached boys soccer team at St. Joseph Prep, reaching second round of playoffs after a record of 12 wins, 5 draws, and 1 loss

## Work Experience

*Math Teacher* High Schools in Louisville, KY and Boston, MA 2020-2023

- Collaborated with Professional Learning Community to align instruction
- Planned and taught year-long classes in geometry, pre-calculus, and computer programming

*Intern* James City County Planning Division, Williamsburg, VA Fall 2018

- Took initiative to identify opportunity to automate time-consuming data entry tasks and wrote the scripts in Visual Basic that saved coworkers hours each week

## Skills

- *Proficient:* Python, Java, C++, Android Studio *Familiar:* Javascript, CSS, Git, SQL
- Strong oral and written communication skills from career in education
- Large-scale planning and organization skills developed while coaching and teaching