CS50 Certificate

CS50 congratulates

## Patrick Spaulding Ryan, PhD

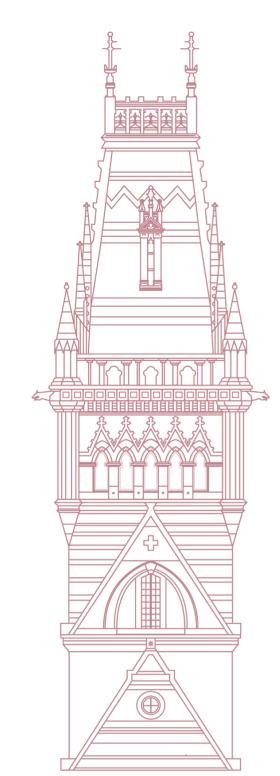
on completion of CS50x, including ten problem sets, eight labs, and one final project.

Awarded from Cambridge, Massachusetts, in the year two thousand twenty-two.



David J. Malan Gordon McKay Professor of the Practice of Computer Science Harvard University





https://cs50.harvard.edu/certificates/d70a02ce-060f-4bf9-933d-347592c36e1f