

CS50 Certificate

CS50 congratulates

**Joseph McHale**

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/6fbd2edc-38fd-4289-bef4-371aead1ddb0>

