

CS50 Certificate



CS50 congratulates

**Rafael Ramalho Vilela**

whose team scored among the highest in CS50x Puzzle Day 2023.

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

A handwritten signature in black ink, appearing to read 'David J. Malan', written over a light gray grid background.

**David J. Malan**

Gordon McKay Professor of the Practice of Computer Science  
Harvard University



<https://cs50.harvard.edu/certificates/759db16e-1d13-4005-8029-673b4e1d403b>