



CERTIFICATE  
*Issued April 15th, 2013*

This is to certify that

**José David da Silva Carvalho**

successfully completed

***CS50x: Introduction to Computer Science I***

a course of study offered by **HarvardX**, an online learning  
initiative of **Harvard University** through **edX**.

A handwritten signature in black ink, appearing to read 'David J. Malan', written over a horizontal line.

**David J. Malan**  
Senior Lecturer on Computer Science  
**School of Engineering and Applied Sciences**  
Harvard University

HONOR CODE CERTIFICATE

\*Authenticity of this certificate can be verified at <https://verify.edx.org/cert/2fec76b8255344d3b27ea9fadb3c66c9>