



CERTIFICATE
Issued April 15th, 2013

This is to certify that

Paulo Miguel Jesus Amaral

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", positioned above 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/4f586c1fb0d3492a975b4e8270ab5571>