



CERTIFICATE
Issued April 15th, 2013

This is to certify that

Nuno António Oliveira Arruda

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/86117eff7d2f4f1281cd45b640bc91d2>