



This is to certify that

David J. Malan
Gordon McKay Professor
of the Practice of Computer Science
Harvard University

Mariane Ramos Lamana

successfully completed and received a passing grade in

CS50x: CS50's Introduction to Computer Science

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



Verified CertificateIssued Setembro 24, 2021

Valid Certificate ID ad8ac124c2a0462d88569e35294d858e