



CERTIFICATE OF COMPLETION

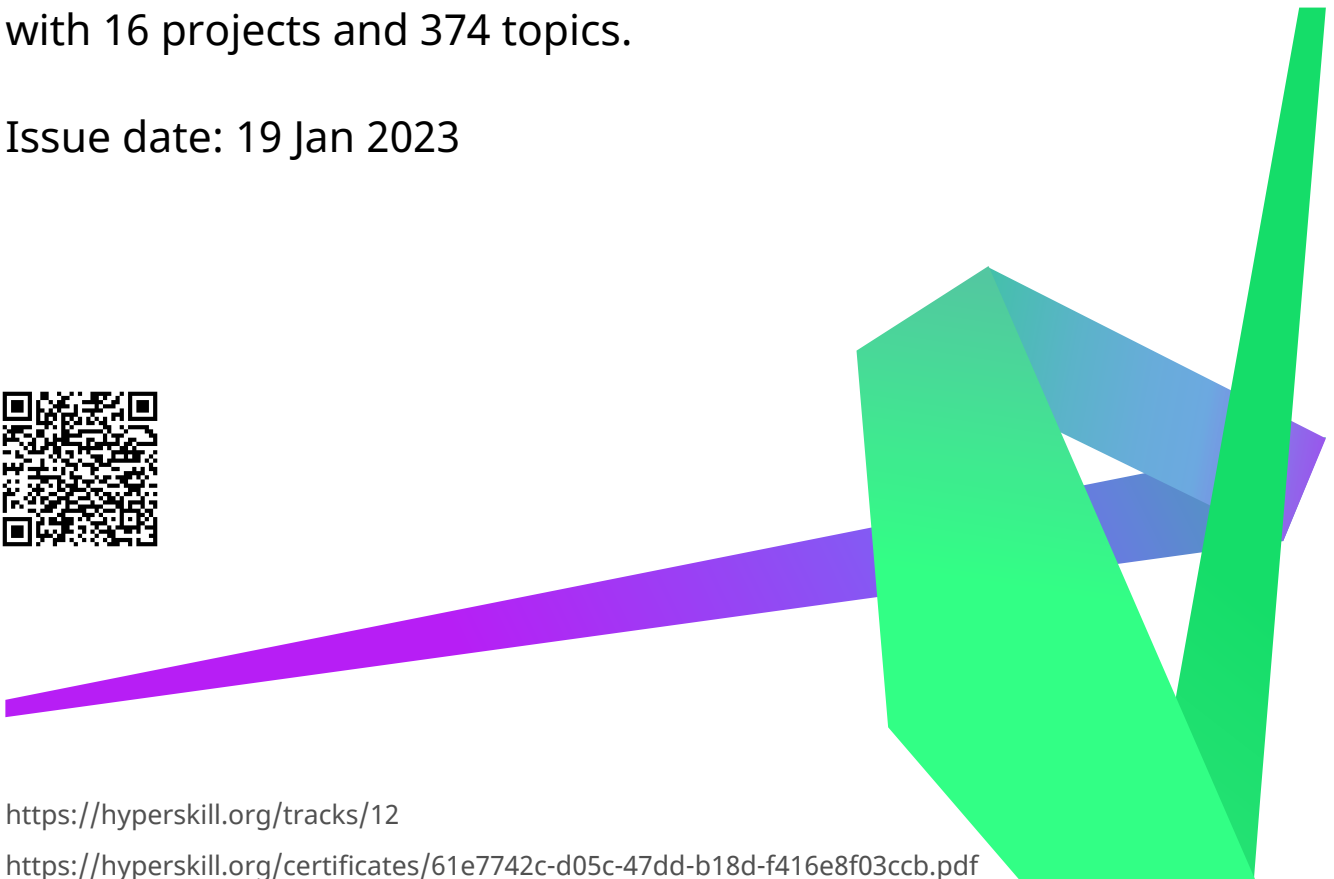
Emad Ali

has successfully completed the track

Java Backend Developer

with 16 projects and 374 topics.

Issue date: 19 Jan 2023



CS50 Certificate

CS50 congratulates

Emad Ali

on completion of CS50's Introduction to
Artificial Intelligence with Python,
including twelve projects and seven quizzes.

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

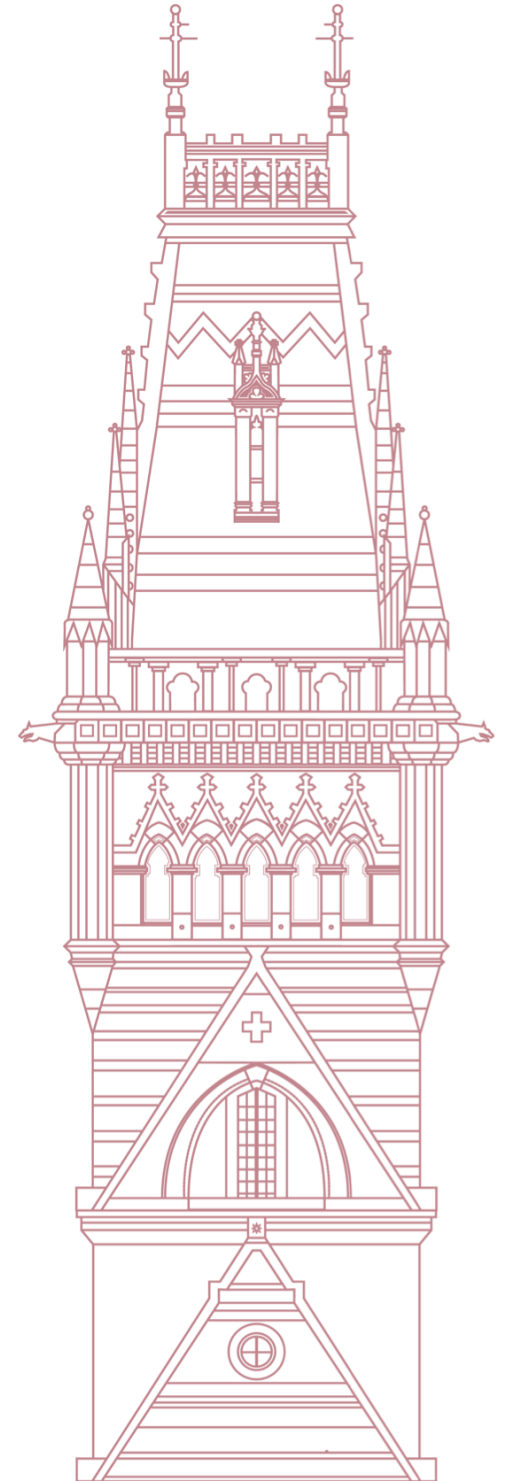


David J. Malan

Gordon McKay Professor of the Practice of Computer Science
Harvard University



<https://cs50.harvard.edu/certificates/31dec714-8443-4391-8c02-78d2f220bd10>



CS50 Certificate

CS50 congratulates

Emad Ali

on completion of CS50x, including nine problem sets and one final project.

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

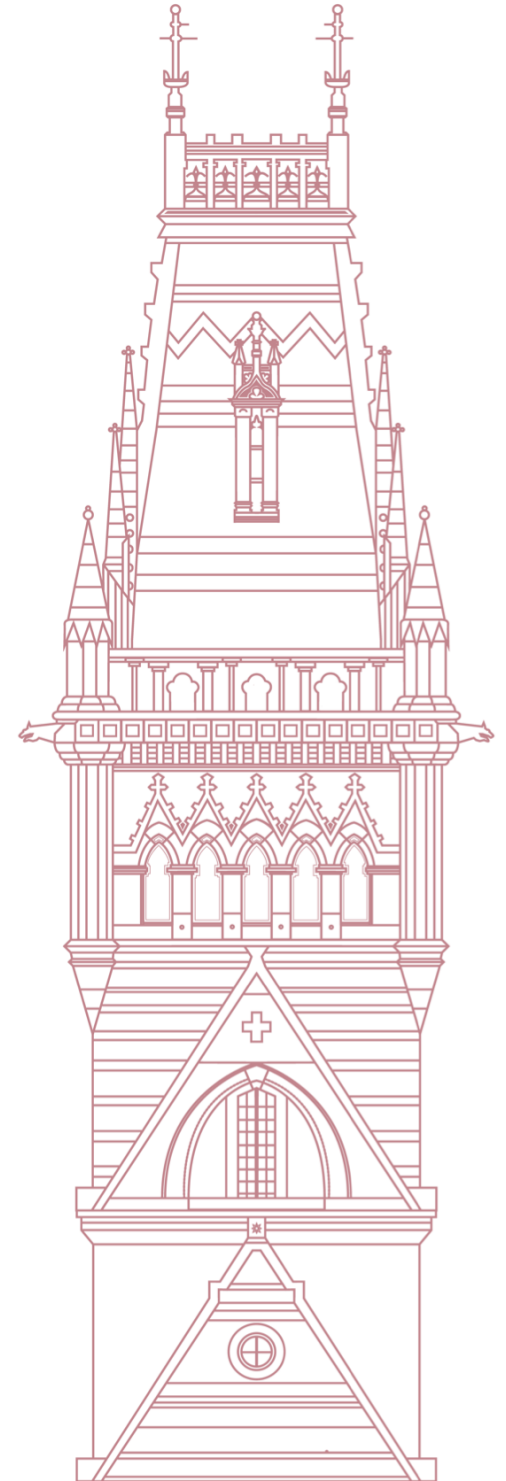


David J. Malan

Gordon McKay Professor of the Practice of Computer Science
Harvard University



<https://cs50.harvard.edu/certificates/968b9013-084f-4370-974b-bf7a00384b1f>



Verified
Certificate

HarvardX



David J. Malan

Gordon McKay Professor
of the Practice of Computer Science
Harvard University

This is to certify that

Emad Ali

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 Certificate
Issued January 11, 2021

Valid Certificate ID
[9f75b4172a584a928bb42c505c3b57a8](#)



MASSIIIVISET AVOIMET VERKKOKURSSIT
MASSIVE OPEN ONLINE COURSES · MOOC.FI



UNIVERSITY OF HELSINKI
DEPARTMENT OF COMPUTER SCIENCE

Emad Ali

has completed the course

Java Programming I

which is a part of the course series Java Programming MOOC

This open online course has been held by the Computer Science department of University of Helsinki. For University of Helsinki students the course is equivalent to 5 ECTS.

Erkki Kaila, PhD.
University Lecturer

<https://certificates.mooc.fi/validate/vnmwtausnk>



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Erkki Kaila, PhD.
University Lecturer

<https://certificates.mooc.fi/validate/nzvtbm2k9f>



Certificate no: UC-429b900a-56b8-43e9-9547-684ed9a03c79
Certificate url: ude.my/UC-429b900a-56b8-43e9-9547-684ed9a03c79
Reference Number: 0004

CERTIFICATE OF COMPLETION

Java Programming Masterclass covering Java 11 & Java 17

Instructors **Tim Buchalka, Tim Buchalka's Learn Programming Academy**

Emad Ali

Date **Oct. 20, 2021**

Length **80.5 total hours**



Certificate no: UC-f85e3356-b500-42c1-b0be-e06061149655
Certificate url: [ude.my/UC-f85e3356-b500-42c1-b0be-e06061149655](https://udemy.com/certificate/UC-f85e3356-b500-42c1-b0be-e06061149655)
Reference Number: 0004

CERTIFICATE OF COMPLETION

Learn Python Programming Masterclass

Instructors **Tim Buchalka, Jean-Paul Roberts, Tim Buchalka's Learn Programming Academy**

Emad Ali

Date **July 23, 2021**
Length **64.5 total hours**