ARAD **HAMIDSAMIEE**

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PROFESSIONAL COURSES

DECEMBER 2020

CS50, BY HARVARD UNIVERSITY

AN ONLINE COURSE

HTTPS://CERTIFICATES.CS50.IO/FBB4FCDD-ED2D-42CB-A275-37CFBA01B271.PDF?SIZE=LETTER

SEPTEMBER 2020

COMPUTER GRAPHICS WITH MODERN OPENGL AND C++, BY BEN COOK

AN ONLINE COURSE THROUGH UDEMY

HTTPS://WWW.UDE.MY /UC-38D1CC9D-F3FB-4AFE-9E88-87BE547D9470/

AUGUST 2020

SUMMER AI SCHOOL, IPM INSTITUTE FOR RESEARCH IN FUNDAMENTAL SCIENCES

A THREE DAYS AI BOOT CAMP WITH 'INSTITUTE FOR COGNITIVE SCIENCE STUDIES', 'SHARIF UNIVERSITY OF TECHNOLOGY' AND 'UNIVERSITY OF TEHRAN'

AUGUST 2020

PYTHON FOR EVERYBODY SPECIALIZATION, UNIVERSITY OF MICHIGAN

AN ONLINE COURSE THROUGH COURSERA

HTTPS://WWW.COURSERA.ORG/VERIFY/SPECIALIZATION/EZYLLSYAFJRH

AUGUST 2020

CAPSTONE: RETRIEVING, PROCESSING, AND VISUALIZING DATA WITH PYTHON (WITH HONOR), UNIVERSITY OF MICHIGAN

AN ONLINE COURSE THROUGH COURSERA

HTTPS://WWW.COURSERA.ORG/VERIFY/NSXKYM2CZUXU

AUGUST 2020

USING DATABASES WITH PYTHON, UNIVERSITY OF MICHIGAN

AN ONLINE COURSE THROUGH COURSERA

HTTPS://WWW.COURSERA.ORG/VERIFY/D39YM39YXGGU

JULY 2020

USING PYTHON TO ACCESS WEB DATA, UNIVERSITY OF MICHIGAN

AN ONLINE COURSE THROUGH COURSERA

HTTPS://WWW.COURSERA.ORG/VERIFY/SFM8DKX6SAKR

JULY 2020

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[1] https://www.linkedin.com/in/aradhamidsamiee

PYTHON DATA STRUCTURES, UNIVERSITY OF MICHIGAN

AN ONLINE COURSE THROUGH COURSERA

HTTPS://WWW.COURSERA.ORG/VERIFY/7X77UQBKU448

JULY 2020

PROGRAMMING FOR EVERYBODY (GETTING STARTED WITH PYTHON), UNIVERSITY OF MICHIGAN

AN ONLINE COURSE THROUGH COURSERA

HTTPS://WWW.COURSERA.ORG/VERIFY/K33LNJQABR98

JULY 2020

FLUTTER & DART - THE COMPLETE GUIDE [2020 EDITION], ACADEMIND BY MAXIMILIAN SCHWARZMÜLLER

AN ONLINE COURSE THROUGH UDEMY

HTTPS://WWW.UDE.MY/UC-91910131-4CEA-490E-94A5-7337F9524F9F

JULY 2020

NETWORK HACKING – INTERMEDIATE TO ADVANCED, ZSECURITY

AN ONLINE COURSE THROUGH UDEMY

HTTPS://ZSECURITY.ORG/CERTIFICATION/VALIDATION/?CERT_NUMBER=6CJS52R7
HTTPS://WWW.UDE.MY/UC-39B83ECA-3147-4890-BDB9-0C1F89C45EEA

JULY 2020

LEARN PYTHON AND ETHICHAL HACKING FROM SCRATCH, ZSECURITY

AN ONLINE COURSE THROUGH UDEMY

HTTPS://ZSECURITY.ORG/CERTIFICATION/VALIDATION/?CERT_NUMBER=H58VHR4Z
HTTPS://WWW.UDE.MY/UC-39B83ECA-3147-4890-BDB9-0C1F89C45EEA

JULY 2020

LEARN ETHICHAL HACKING FROM SCRATCH, ZSECURITY

AN ONLINE COURSE THROUGH UDEMY

HTTPS://ZSECURITY.ORG/CERTIFICATION/VALIDATION/?CERT_NUMBER=CVRIB0OT
HTTPS://WWW.UDE.MY/UC-8F829BB9-F9E7-4797-A423-766DBE5BF907

APR 2020

LINUX TOOLS FOR DEVELOPERS, THE LINUX FOUNDATION

AN ONLINE COURSE THROUGH COURSERA

HTTPS://WWW.COURSERA.ORG/VERIFY/9ERN85S5W8AE

APR 2020

LINUX FOR DEVELOPERS, THE LINUX FOUNDATION

AN ONLINE COURSE THROUGH COURSERA

HTTPS://WWW.COURSERA.ORG/VERIFY/GFFV8U7RKZR2

APR 2020

OPEN SOURCE SOFTWARE DEVELOPMENT METHODS, THE LINUX FOUNDATION

AN ONLINE COURSE THROUGH COURSERA

HTTPS://WWW.COURSERA.ORG/VERIFY/D7KLKW7DKK42

APR 2020

USING GIT FOR DISTRIBUTED DEVELOPMENT, THE LINUX FOUNDATION

AN ONLINE COURSE THROUGH COURSERA

HTTPS://WWW.COURSERA.ORG/VERIFY/F49D9SXZ5NKW

APR 2020

OPEN SOURCE SOFTWARE DEVELOPMENT, LINUX AND GIT SPECIALIZATION, THE LINUX FOUNDATION

AN ONLINE COURSE THROUGH COURSERA

HTTPS://WWW.COURSERA.ORG/VERIFY/SPECIALIZATION/XY7NS84J5ZZ6

OCT 2019 (5-WEEK COURSE)

THE INTRODUCTION TO QUANTUM COMPUTING, SAINT PETERSBURG STATE UNIVERSITY

AN ONLINE COURSE THROUGH COURSERA

HTTPS://WWW.COURSERA.ORG/VERIFY/YMPU48JVN3Z4

1 AUG – 12 SEP 2018

THE UNITY GAME DEVELOPMENT ADVANCE, UT (UNIVERSITY OF TEHRAN)

ADVANCED COURSE

15 FEB – 22 MARCH 2018

THE GAME DEVELOPMENT AND PROGRAMMING WITH UNITY 3D ENGINE, UT (UNIVERSITY OF TEHRAN)

INTERMEDIATE COURSE

8-14 MARCH 2017

1ST INTERNET OF THINGS CHALLENGE (IOT), IUST (IRAN UNIVERSITY OF SCIENCE AND TECHNOLOGY), IEEE SPONSERED

A ONE WEEK CHALLENGE OF APPLIED IDEAS AND IMPLEMENTATIONS, AND A PRESENTATION TO SPONSORS AT THE END

2017

THE INTRODUCTION TO MENDELEY, UT (CENTRAL LIBRARY OF UNIVERSITY OF TEHRAN)

AN ADMINISTRATIVE COURSE ABOUT GETTING TO KNOW MENDELEY AND WORKING WITH IT

2017

THE INTRODUCTION TO DIGITAL CURRENCIES (BITCOIN, ETHERIUM, ETC), UT (ENGINEERING DEPARTMENT, UNIVERSITY OF TEHRAN)

A REVIEW ON HOW BITCOIN STARTED AND HOW IT WORKS, WHAT TYPES OF ENCRYPTION IT USES, HOW BLOCKCHAINS ARE FUNCTIONING, WHAT IS REQUIRED TO TRACK ONES BALANCE, WHAT TO DO INORDER TO START A NEW BLOCK AND GAIN 1BTC, FORKS AND THE IMPACT OF BITCOIN ON MOST DIGITAL CURRENCIES TODAY

2015

OLYMPIADS OF ASTRONOMY, IRYSC

A PREPRATION COURSE FOR SCIENTIFIC OLYMPIADS

DEC 2014

ASTROLABE WORKSHOP, SCIENCE MUSEUM

A COURSE ABOUT ASTROLABES AND HOW TO MAKE ONE

EXPERIENCE

2021

TA (TEACHER ASSISTANT), KHARAZMI UNIVERSITY

I've served as a teacher assistant in classes like Algorithms Design.

2021

LECTURER, SADRA INSTITUTE OF HIGHER EDUCATION

Since early 2021 I've been a Lecturer in Sadra institute of higher education. I've taught Computer Simulation so far.

2020

INTERNSHIP, PARAND TECH GROUP

I served as an intern and made a cross-platform smartphone application.

2019

TEACHER ASSISTANT, SADRA INSTITUTE OF HIGHER EDUCATION

I was assistant in a couple of courses such as "Database Laboratory" and "Operating Systems Laboratory" and helped with finals.

EDUCATION

OCT 2020 –

MSCS STUDENT, KHARAZMI UNIVERSITY

Computer Science, Data Mining

SEP 2016 – AUGUST 2020

BACHELOR STUDENT, SADRA INSTITUTE OF HIGHER EDUCATION

Software Engineering

SEP 2012 – JUNE 2016

DIPLOMA, PISHGAM HIGH SCHOOL

Mathematics and Physic

LANGUAGES

ENGLISH

AS A LEARNER

2012 – AUG 2015

Simin English Learning School

AS A TEACHER TRAINER

2019

Simin English Learning School

FRENCH

2016 - 2017

Times Institute of Foreign Languages

A1.1 – A2.3

2017 – NOW

CLF (Le Centre de langue française de Téhéran)

A1.1 – B2.1

SKILLS

PROGRAMING LANGUAGES

- C, C#, C++ using gcc as the compiler (fluent)
- Python (fluent)
- Assembly
- HTML, CSS (fluent)
- JavaScript (fluent)
- GDscript (fluent)
- ASP .net (fluent)
- JAVA
- MatLab
- ADA95

DATABASES

- SQLite
- SQL Server
- MySQL

MOST RECENT LIBRARIES I'VE BEEN WORKING WITH

- Flask
- Pandas
- PyQT5
- PyOpenGL
- Matplotlib - Pyplot
- Numpy
- Pygame
- Opencv intel
- Selenium
- OpenGL 2.0
- OpenGL 3.0

SIMULATION AND GRAPHICS ENVIRONMENTS

- UNIGINE 2.12 community
- Godot 3.2
- Unity 2018
- Unreal Engine 4.21
- Marmost Hexels 3
- Adobe Photoshop CC
- Adobe Premiere Pro
- Blender
- SketchUp

VIRTUALIZATION ENVIRONMENTS

- VirtualBox

- VMware
- Docker

OPERATING SYSTEMS I'VE WORKED WITH

- ARADOX (My own small kernel – in development)
- Mint
- MINIX 3
- Ubuntu (since 2014)
- FreeBSD
- Fedora
- Kali Linux
- Parrot OS
- CentOS
- PopOS

CIRCUIT DESIGNING ENVIRONMENTS

- Proteus Design Suite

NETWORKING

- Setting up, managing and handling VOIP service using ISSABEL
- Cisco Packet Tracer

ACTIVITIES

- OCTOBER 2006 - Award Winner of Iranian Space Agency due to drawing competition of international space week
- 2010 - Award Winner of Best writer for short story competition by ministry of education
- APRIL 2018 - Developing A scanner and parser for Mini-Pascal programming language compiler using a list of tokens provided by the computer science group of The University of Helsinki[2]
- NOVEMBER 2018 - Developing ASPX webpages, dashboards and portals coded in C# using SQL Server
- 2018 - Developing A real-time face detector using C++ and OpenCV library that draws customizable polygons (rectangles) around face and eyes
- Developing A full functioning "web crawler" and "web scraper" coded in C# using selenium packages and web drivers and Xpath navigation
- 2019 - Developing an educational c# program called "Database Handler" which allows students to perform database actions on a real database using GUI and forms, then the program displays the query.
- 2019 - Setting up, managing and handling VOIP service using ISSABEL
- 2019 - Developing a "sliding puzzle" solver coded in C#
- 2019 - Developing a "8 Queens puzzle" solver coded in C# and MatLab (different approaches)
- 2019 - Developing The game "Waves and Machines" coded in GDscript in Godot engine

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[2] https://www.cs.helsinki.fi/u/vihavain/k16/CodeGeneration/project/minipascalsyntax.pdf

- 2019 - Launching and managing couple of personal web pages, coded in HTML5, CSS and JavaScript entirely such as https://aradhamidsamiee.github.io and http://pv.bluepeople.dx.am/
- 2020 - Developing the classic ping pong game using Assembly.
- 2020 - Developing an even better version of my last crawler, coded in Python3 using "bs4" library (beautiful soup)
- 2020 - Developing a functioning text based falling sand simulation with Python
- 2020 - Developing a Python program that performs basic operations on images (selection tool - pixel paint - copy - paste - modifying hue saturation)
- 2020 - Developing a vector based paint program with Python and OpenCV (cv2)
- OCTOBER 2020 - Participating in Ludum Dare #47 jam in October 2020
- 2020 - Writing ARADOX, my own OS, in development
- 2020 - Producing a program that checks the health of PlayStation/Xbox/Nintendo joysticks and their 16 main buttons
- 2020 – Dec – Development of a multilayer perceptron that receives any dataset (also includes a .csv converter to a file that's actually easy to read) and trains on it by any number of layers the user demands.
- 2021 – Jan – Developing a full-fledged MCDM (multiple-choice decision making) web application from scratch, implementing all services and databases. Still in development. Source will be published on github soon.

REFERENCES

Available upon request