# ARAD HAMIDSAMIEE

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## PROFESSIONAL COURSES

**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**

**PYTHON DATA STRUCTURES**, UNIVERSITY OF MICHIGAN

**AN ONLINE COURSE THROUGH COURSERA**

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

**JULY 2020**

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

**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](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](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

**2020 - SEPTEMBER**
**SCHOOL TEACHER,** SAMA HIGH SCHOOL NO 4

I WAS ASSISTANT IN A COUPLE OF COURSES SUCH AS "DATA BASE LABORATORY" AND "OPERATION SYSTEMS LABORATORY" AND HELPED WITH FINALS.

**2020 -**
**INTERNSHIP,** PARAND TECH GROUP

I SERVED AS AN INTERN AND MADE A CROSS-PLATFORM SMARTPHONE APPLICATION FOR BANKS AND OTHER CLIENTS.

**2019**
**TEACHER ASSISTANT,** SADRA INSTITUTE OF HIGHER EDUCATION

I was assistant in a couple of courses such as "Data Base Laboratory" and "Operation Systems Laboratory" and helped with finals.

# EDUCATION

**SEP 2016 – AUGUST 2020**
**BACHELOR STUDENT,** SADRA INSTITUTE OF HIGHER EDUCATION

Computer 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)
- Assembly
- Python (fluent)
- ASP .net (fluent)
- JAVA
- HTML, CSS (fluent)
- JavaScript (fluent)
- GDscript (fluent)
- MatLab
- ADA95

## DATABASES

- SQLite
- SQL Server
- MySQL

## MOST RECENT LIBRARIES I'VE BEEN WORKING WITH

- 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 operating system)
- 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
- 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.

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

- 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 which uses my own kernel, in development
- 2020 - Producing a program that checks the health of PlayStation/Xbox/Nintendo joysticks and their 16 main buttons

## REFERENCES

Available upon request