

Sina Heidari

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Education

B.S. in Electrical Engineering

AMIR KABIR UNIVERSITY OF TECHNOLOGY (TEHRAN POLYTECHNIC)

Tehran, Iran

September 2018 - Present

- Thesis : Dynamic Full Stack Developing of Tehran's Stock Market and Cryptocurrency's Market
- Supervisor : Dr.JahanShahi

Research Interests

- Cyber Security
- Network Security
- Information Security
- Computer Communication Network Design and Analysis
- Cloud and Computing
- Software Engineering
- Programming Languages
- Software Developing
- Artificial Intelligence

Skills

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| Programming / Scripting language | C/C++, C#, JavaScript, Python, TypeScript, Java, GO, Bash Script, SQL, Flutter, VHDL, HTML, CSS, PHP, Assembly, \LaTeX |
| Libraries / Frameworks | React, Redux, Next.JS, jQuery, STRApi, GraphQL, Vue, SASS, React Native, Expo.JS, Electron, Express.JS, Flask, PyQt, Numpy, Matplotlib, Pandas , .Net |
| Tools / Software | NodeJs, Docker, Android Studio, PGAdmin, MySQL, PostMan, Git, Unity, Unreal Engine, QTDesigner, Figma, Adobe Photoshop , Adobe Illustrator, Adobe After Effect, Adobe XD, Adobe inDesign, Adobe Audition, Proteus |
| Kali Tools | Metasploit, Evilgrade, Maltego, Veil-Evasion, Airplay-ng, Aircrack-ng, AirDump-ng , NMAP, Wire-Shark, Crunch, Reaver, Netdiscover, Arpspoof, BetterCap, John the Ripper, DNSMap, HashCat, SQLMap, NCrack , Medusa , RainbowCrack , WPSan |
| Operating System | Kali Linux , Ubuntu, Tails Linux, Parrot Linux, Windows |

Selected Projects

Company Management App

Desktop Programming

AN APP FOR MANAGEMENT EMPLOYEES AND TASK OF A COMPANY

- Designed and Developed By PyQt and QTDesigner
- Save Every Add , Edit or Delete Action on a Local Database

Smart Farming

Web Developing

IMPLEMENTATION A FULL CONTROL ON A SMART FARM OR GARDEN

- As a Part of the Team I Worked on Sending and Reserving Data From Website Based on JQuery and Flask
- The Whole Project Based on Website , Matlab, Proteus, Raspberry pi

Web Games

Web Developing

WEB GAMES AND APPS BASED ON VANILLA JAVASCRIPT OR CANVAS OF HTML

- Games Like Maze, Breakout, Lines & Dots, Shootout, Ping Pong
- Apps Like Black Board, Piano, Weather Forecast

Cloned APPs

Web Developing

CLONED 4 OF THE POPULAR SOCIAL MEDIA FROM SCRATCH

- Based on React, Redux, Firebase or MongoDB as Database
- Popular App Like WhatsApp , TikTok, Discord, Twitter

Phone's App

Phone Programming

APPS LIKE PERSONAL EXPENSES, SHOPPING, MEALS RECIPES AND ... FOR BOTH ANDROID AND IOS OPERATING SYSTEM

- Based on React Native or Flutter and Google Services
- Using MongoDB and Firebase for Database

CPU Design

Hardware

MEDIUM CPU DESIGN WITH IT'S ASSEMBLER USING VHDL

- Has ROM, RAM, Cordic (Our Implementation), Timer, Sensor/I/O
- Assembler Based on Python and Put Machine Code to ROM

Image Processing

Machine Learning

BASIC IMAGE PROCESSING USING STM MICROPROCESSORS X-CUBE AI MODULE

- Training a Model Using TensorFlow
- Process and Making h5 and tflite File for Using in STM

NLP

Machine Learning

EMOJI DETECTION ON TWEET EVAL DATABASE

- Training a Model Using sklearn
- Process Every Character and Labels for Detection

Courses

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| <ul style="list-style-type: none">• Advanced Programming• DSP• Data Structures and Algorithms• Machine Learning• Electronic banking• Programmable Logic Circuits• VLSI System Design | <ul style="list-style-type: none">• Microprocessor Systems and Interfaces• Computer Architecture• Ethical Hacking• Hacking Using Rooted System• Cyber Security• Anonymity, Privacy and Security• Laser Electronics |
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Teaching Experience

Sub-TA

Tehran, Iran

TEACHING ELECTRONICS II

January 2022 - June 2022

Programming Teacher

Tehran, Iran

PRIVATE TEACHER FOR WEB AND PHONE DEVELOPING

January 2021 - Present

Linkedin Skill Assessments Badge

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| <ul style="list-style-type: none">• C• C++• C#• Python• JavaScript• Git | <ul style="list-style-type: none">• Node.Js• React.Js• PHP• MySQL• HTML• CSS |
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Language Skills

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|----------------|----------------------|
| Persian | Native |
| English | Professional Working |
| German | Elementary |