

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

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 , WPScan
Operating System	Kali Linux , Ubuntu, Tails Linux, Parrot Linux, Windows

Honors

- Graduated among the **Top 3 students** from **Electronic major** in EE faculty of AmirKabir University of Technology (Ranked within the top 3 Universities in Iran)

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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|---|--|
| • Advanced Programming | • Microprocessor Systems and Interfaces |
| • DSP | • Computer Architecture |
| • Data Structures and Algorithms | • Ethical Hacking |
| • Machine Learning | • Hacking Using Rooted System |
| • Electronic banking | • Cyber Security |
| • Programmable Logic Circuits | • Anonymity, Privacy and Security |
| • VLSI System Design | • Laser Electronics |

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

- | | |
|-----------------|---------------------|
| • C | • JavaScript |
| • C++ | • Git |
| • C# | • Node.Js |
| • Python | • React.Js |

- PHP
- MySQL

- HTML
- CSS

Language Skills

Persian	Native
English	Professional Working
German	Elementary