

Sina Heidari

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Education

B.S. in Electrical Engineering

AMIR KABIR UNIVERSITY OF TECHNOLOGY (TEHRAN POLYTECHNIC)

Tehran, Iran

September 2018 - Present

- GPA = 3.5/4
- 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, Chart.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